Middlebury College 1972-1973

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Registration Catalogue Issue / Fall Term

MIDDLEBURY COLLEGE BULLETIN
MAY 1972

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Published by Middlebury College five times in February, once in March, April, May and November, twice in September by the Publications Department, Middlebury College, Middlebury, Vermont.
Second Class postage paid at Middlebury, Vermont 05753

VOL. LXVII, MAY, 1972, NO. 8

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REGISTRATION INFORMATION
FALL TERM 1972-73

Students may pick up their Registration Materials from May 1 to May 3, 1972 in the Registrar's Office.

REGISTRATION DATE: Thursday, May 4, 1972 - in McCullough Gym
Class of 1973 -- 8:30 A.M. to 10:30 A.M.
Class of 1974 -- 10:30 A.M. to 1:00 P.M.
Class of 1975 -- 1:00 P.M. to 4:00 P.M.
Graduate and Special Students may register anytime during the day.

REGISTRATION MATERIALS:
Fall Term Registration Card 72-73
Course Schedule Card (STUDENT)
Student Activity Card
Registration Catalogue Fall Term 1972-73
Class Schedule (COURSES)

INSTRUCTIONS:

1. Fall Term Registration Card 72-73 (See Sample below)
   a. Previous to Registration and in consultation with your adviser, list four (4) courses, plus non-credit Military Science if elected, and have courses requiring "permission" signed by the instructor. Freshmen (Class of 1976) enrolling in courses other than those numbered 100 through 190 must obtain instructor's signature. Freshmen may not elect more than one curse in a Department in any one term (AL 201 and courses in ED Freshman Writing Program may not be taken simultaneously).
   b. Obtain your adviser's signature.
   c. If you are taking a 500 series course, you must obtain the signatures of both the instructor and the Chairman of the Department.
   d. If you are registering for fewer or more than four courses, you must obtain the signature of a Dean.
   e. MAJOR: Members of the class of 1976 do not select a major during Fall Registration. Students in the class of 1975 must indicate choice of major, even if tentative. This major must be selected from the list given in Part 2. If your major is listed, print the official name of this major in the box provided (upper right hand corner), and check the "Single Major" box below. If you enroll in a Joint Major or a Double Major follow the instructions outlined in the section below the list in Part 2. All other students should check the Major Box to see that the proper major is recorded. If entry is not correct, a "Major Change Form" (available at the Registrar's Office) must be completed and returned to the Registrar.
   f. ADVISER: Members of the class of 1976 will be assigned a freshman adviser, but no entry should be made in the Adviser Box. Students in the class of 1975 should have their new major adviser print his name in the Adviser Box, and sign on the line immediately below this box. All other students: your adviser's name will be printed in the Adviser Box. If a change in adviser is necessary, the proper form must be obtained from the Registrar's Office, completed, and returned to the Registrar.

FALL TERM REGISTRATION CARD 72-73

STUDENT NAME M 74 13002

FALL

Course No.	Instructor's Signature if a Permission Course
MA 331	L. Ballou
BI 311	
CH 500	E.L. Pool
EC 210	

If you have registered for fewer, or more, than four credit-courses you must obtain the signature of a Dean.

INDICATE MAJOR

CHEMISTRY

Check the box which applies to your major

- ☑ Single Major
- ☐ Double Major
- ☐ Joint Major

ADVISOR

POOL

E.L. Pool

Advisor Approval

Dean's Approval

2. Official Majors:

American Literature
American Studies (History)
American Studies (Literature)
Art
Biology
Biology-Chemistry (Joint Major)
Chemistry
Classics
Drama (English)
Economics
English
Environmental Studies (Biology)
Environmental Studies (Chemistry)
Environmental Studies (Geography)
Environmental Studies (Geology)
Environmental Studies (Physics)
French
Geography
Geology
German
History
Mathematics
Music
Philosophy
Physics
Political Science
Psychology
Religion
Russian
Sociology-Anthropology
Spanish

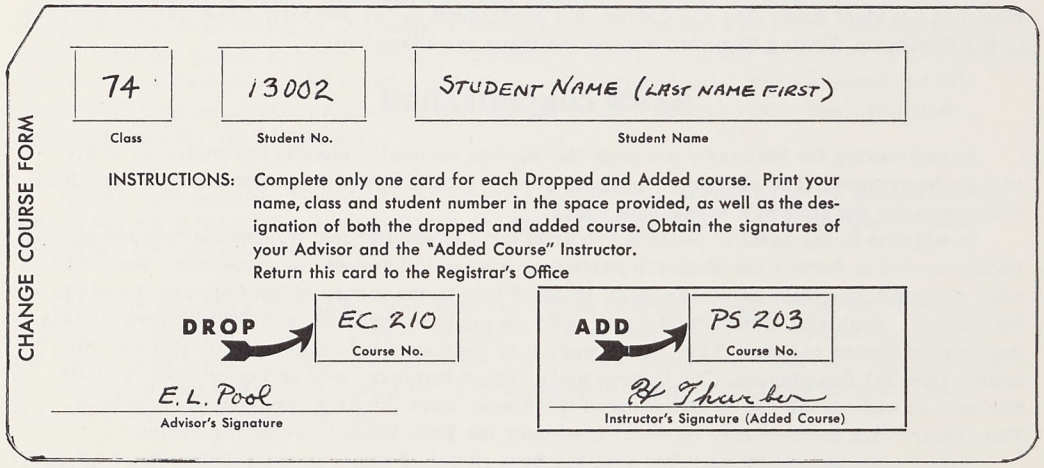
Joint Major: A program that combines portions of two of the above disciplines, arranged on an individual basis with the cooperation and approval of the departments involved. The specific requirements for the total Joint Major program must be filed with the Registrar in writing with signatures of both faculty members and the student. These majors should be recorded on the registration card by listing both departments involved (e.g. History-English), and checking the Joint Major Box. The card must be signed by two advisers, one from each department.

Double Major: A program in which the student fulfills the complete major requirements of two departments. These majors should be recorded on the registration card by listing both departments involved (e.g. Art-Music), and checking the Double Major Box. The card must be signed by two advisers, one from each department.

3. Student Activity Card:
   a. Complete this card, bringing it up-to-date with your previous and present activities.

4. Registration Procedure:
   a. Report to McCullough Gym with your Registration materials on Thursday, May 4th, at the designated hour.
   b. Stop at each table corresponding to the departments in which you wish to enroll. The departmental representatives will give you course cards and indicate times and course numbers on your Course Schedule Card. Go to single section courses first.
   c. When you have obtained a course card for each course in which you have been authorized to enroll, hand in your materials at the Check-Out table. Your Registration is completed.
   d. When you arrive on campus next fall, your course schedule will be in your Proctor Hall Post Office Box.

5. Drop and Add Card Instructions: (see Sample below)
   a. After you have officially registered, all changes in courses or sections must be recorded in the Registrar's office on Change Course Forms.
   b. Use only ONE card to make a course drop and an add.
   c. Fill in the required information in the areas provided: Class, Student Number, and Student Name (listing Last Name first).
   d. Obtain the signatures of both your adviser and the instructor of the course you are adding.
   e. Return the completed card to the Registrar's Office on or before the end of the two week period that follows the first day of classes.
   f. After the two week period is over, ALL drop and add cards must be approved, in writing, by a Dean plus the other necessary signatures. No verbal permission of course changes will be accepted.


CHANGE COURSE FORM
74
Class
13002
Student No.
STUDENT NAME (LAST NAME FIRST)
Student Name
INSTRUCTIONS: Complete only one card for each Dropped and Added course. Print your name, class and student number in the space provided, as well as the designation of both the dropped and added course. Obtain the signatures of your Advisor and the "Added Course" Instructor.
Return this card to the Registrar's Office
DROP
EC 210
Course No.
E. L. Pool
Advisor's Signature
ADD
PS 203
Course No.
Instructor's Signature (Added Course)

6. Late Registration:
   a. There is a $25 fine for failing to register on the date specified unless excused by the Dean of Students.

PHYSICAL EDUCATION REGISTRATION FOR 1972-73

All registrations for instructional classes in physical education are held in McCullough Gymnasium Office and registrations are held prior to the start of each of the five seasons during the college year. (See department section of this catalogue for program and other registration details.)

Fall Season Registration - September 11, 12, and 13 (9:00-12:00 and 1:00-4:00).

Fall Exemption Period - Students must sign-up for test appointments by 4:00 p.m. on September 11 for tests to be given on September 11, 12 and 13.

NORMAL PROGRAM

The normal program of study is four courses in each of the Fall and Spring Terms. R.O.T.C. courses and required Physical Education are carried as electives without credit as a course unit. No extra charge is made for these programs. Only students who have demonstrated superior ability in their academic work are permitted to take more than four courses in a term.

FRESHMAN PROGRAM

All students must take in the freshman year one of the courses in the writing program: these include all courses in English-Drama at the 100 level, Ameican Literature 201, and approved Winter Term writing courses. The successful completion of one of these courses is a graduation requirement. Students should begin work on their Physical Education Program during the Freshman Year. To complete his academic program, each freshman elects three other courses from those open to freshmen. In general, only those courses numbered from 100 to 190 are open to freshmen. Freshmen enrolled in a course within a department, however, may be assigned to a more advanced course by that department upon demonstration of special proficiency. In these cases a departmental signature is required on the Registration Card. Freshmen may not elect more than one course in a department in any one term. (AL 201 and courses in ED Freshman Writing Program may not be taken simultaneously).

MAJOR CONCENTRATION

In registering for his major program the student normally consults the chairman of his chosen department. The chairman appoints a departmental adviser who recommends a pattern of courses for the student's subsequent years.

In addition to the specific courses required for a particular major, cognate courses may be recommended to further the student's particular academic interests or intentions. Departments offer different programs of Senior Work adjusted both to the nature of the field and the needs of the student. Basically, a department may offer as many as three units of Senior Work outside the regular course pattern. This Senior work may consist of Independent Study (700 Course) and/or General Examination (705 Course unit), Senior Seminar (704) or Senior Course (710). Students should consult the descriptions of the Senior Work for each department for details. The Senior Work courses may be distributed over the Fall, Winter and Spring Terms.

Should a student not be satisfied with his first choice of major he may, before the beginning of his third year, change to another major. Prior to the change, however, he should obtain assurance from the department to which the change is contemplated that he will be able to meet its major requirements. To complete a change in major, a "Major Change Form" must be obtained at the Registrar's Office, completed, and returned to the Registrar. After the beginning of the third year a student may change his major only for exceptional reasons and with the consent of the Dean of Students.

Where a Joint Major involving two or more departments is desirable a single General Examination may be required. Details should be worked out with the department chairmen involved.

DEGREE REQUIREMENTS

In addition to the freshman and major requirements, certain additional requirements must be met before the Middlebury College degree is awarded.

1. To be eligible for a degree a student must successfully complete 32 Fall and Spring term courses or their equivalent and 4 Winter courses. No more than 14 Fall and Spring courses may be in the same department. A minimum of 10 courses must be completed in the major. Not more than 6 courses with a D grade may be applied to the degree requirement.
2. The last academic year of undergraduate work must be spent in residence in Middlebury, except as provided in the Technical, Medical, and Dental School Plans.
3. All students must take in the freshman year one of the courses in the writing program: these include all courses in English-Drama at the 100 level, American Literature 201, and approved Winter Term writing courses. The successful completion of one of these courses is a graduation requirement.
4. All students are required to complete the Physical Education Program.

SPECIAL PROGRAMS

Combined Professional School Plans and Pre-Medical or Pre-Dental Programs. Students preparing for engineering, medicine, or dentistry should see the Catalogue-Record/ September 1971 (pages 20 and 21). Any freshman even tentatively comm tted to pre-professional studies should consult Dean Walter Moyer, Chairman, early in the Fall term. Others may consult him about any changes in requirements.

Environmental Studies. Middlebury College offers an interdisciplinary major in Environmental Studies, with Fields of Emphasis in Ecology, Environmental Chemistry, and Environmental Geology, Human Ecology, and Environmental Physics. Students interested in this program should consult Professor H.E. Woodin, Coordinator of Environmental Studies, about specific course requirements. This program is best started in the freshman year. See Catalogue-Record/September 1971 (page 21).

Junior Year Abroad. Students interested in a Junior Year Abroad program should discuss their plans early with their faculty adviser and the Dean of Students. See Catalogue-Record/ September 1971 (pages 21 and 22).

Teacher Education Program. Middlebury offers an interdisciplinary program of courses to prepare interested students to teach elementary or secndary school by introducing them to the appropriate areas of scholarship in history, philosophy, psychology, and sociology in addition to courses offered in Teacher Education. For a complete description of this program, see Teacher Education course listings.

Military Science Program. The Army Reserve Officers' Training Corps (ROTC) unit provides a voluntary program in Military Science which prepares selected students for a commission as a Second Lieutenant in either the Regular Army or the Army Reserve. A complete description of the program is given with Military Science course listings.

Exchange and Special Programs: Washington Semester Program. Selected students each year spend one term in the national Washington Semester Program administered by American

University. Interested students should contact Professor Leonard Hoag, Political Science Department.

Winter Term exchange arrangements have been established with Lincoln University in Pennsylvania and with Berea College in Kentucky. Students interested in participating in exchanges should contact the Dean of Students.

Independent Scholar Program. The purpose of this program is to allow the student of demonstrated motivation and ability to define his individual educational goals and assume pesonal responsibility for attaining them independent of the College's normal curricular requirements. Students interested should consult the Chairma n of the Independent Scholar Committee.

DEPARTMENTS OF INSTRUCTION

All courses are given as term courses with the exception of Senior Work (700) and 500 courses in an Honors Program. These course numbers may signify on-going work, and in such event are marked "S" (Satisfactory progress) or "U" (Unsatisfactory).

Courses numbered 100-199 are usually taken by freshmen; 200-299, by sophomores; 300-399 by juniors; 400-499, by seniors. Schedules are cleared on this basis and conflicts will thus be most easily avoided by taking courses in proper sequence.

At the head of each departmental section, the major is described and the requirements for a major in that department are stated, together with recommended courses.

Prerequisites to a course are shown in parentheses. Courses not being offered in 1972-73 are bracketed. Abbreviations include: Lab., laboratory period; Lect., lecture period.

The College reserves the right, without further notice, to cancel any courses herein described, or to make any other changes in staff, fees, and courses which may be deemed necessary.

The Departments of Instruction are organized in four Divisions: Humanities, Foreign Languages, Social Sciences, and Natural Sciences.

Division of the Humanities

American Literature
Art
English and Drama
Music
Philosophy
Religion

Division of the Foreign Languages

Classics
French
German
Russian
Spanish and Italian

Division of the Social Sciences

Economics
History
Political Science
Psychology
Sociology-Anthropology
Teacher Education

Division of the Natural Sciences

Biology
Mathematics

Chemistry
Geography and Geology
Physical Education and Athletics
Physics

Spring Term offerings listed for the year 1972-73 may be incomplete. Departments may be consulted about the possibility of other courses.

INTERDEPARTMENTAL

ID 100 Special Freshman Seminar — Fall
Two credit course. An interdisciplinary investigation of modes of thought and methods of investigation. (Permission.) — Mr. Carey

ID 101 Special Freshman Seminar (Spring) — Mr. Carey
One credit course.

ID 305 Language Learning: Theory and Practice — Fall and Spring
This course will relate principles and findings from the fields of linguistics, psychology, anthropology, sociology, literature, and educational research to the art of foreign language learning and teaching. There will be an introduction to resources available to foreign language teachers from professional associations, governmental agencies, and private industry. There will be discussion of bilingual education for linguistic minorities in the U.S. and a brief introduction to foreign language testing. Observation of student teachers by fellow students and the instructor will form the basis for the practicum discussions. Meetings one day a week - evenings. Method of Instruction: Seminar and Observations. (Open to Language/teacher education majors and by permission.) — Mr. Paquette

AMERICAN LITERATURE

The major in American Literature is expected to develop an understanding of the major figures and the chief literary movements as manifested in the writings of both major and secondary figures. The interplay between the general culture and literature and the relationship of writers to one another are emphasized.

Required for the major: AL 201 and 202; AL 301 and 302; four other term courses in the Department; the Senior Program. Each major is required to take at least two courses in American history and two term courses in a non-American literature, the courses to be determined in consultation with his Faculty Adviser.

The Senior Program consists in a Fall Term sem nar and a program of Independent Study in the Spring Term, culminating in a General Examination. Independent Study is based on a background reading list and informal group discussions.

Honors Program: Departmental honors are awarded on the basis of a Senior Thesis. To qualify as a candidate for honors one must have had an average of B- or over for his previous work in the Department. In consultation with his Faculty Adviser and with the approval of the Department, he will select a topic for independent investigation in the Spring of his Junior year. In the Senior year he will take AL 700 (Senior Research) in the Fall Term and in either the Winter or the Spring Term.

An oral examination will be given on the thesis. The examination will be given by two members of the Department and one person from outside the Department. Highest Honors will be granted for a grade of A or above, High Honors for a grade of B+ or A-, Honors for a grade of B. For Honors in any of these categories he must also have a final average of B- for all work in the Department and a mark of B on the General Exam nation.

The Freshman Writing Program

All students must elect in the freshman year one of the courses in the writing program: these include all courses in English-Drama at the 100 level, American Literature 201, and approved Winter Term writing courses. These are courses designed to develop and improve the skills of written communication; they are taught in sections of limited enrollment, require frequent written assignments, and proceed through close correction of papers, class discussion of both particular and general problems of writing and, as may be necessary, individual conferences. Satisfactory completion of one of these courses is a graduation requirement. Freshmen wishing to satisfy this requirement by taking American Literature 201 must register for the special freshman sections.

AL 201 American Literature — Fall, Spring
A study in the growth of American literature from the seventeenth century through the first half of the nineteenth century, as emerging from its cultural backgrounds, and the significance of its major writers: Edwards, Franklin, Cooper, Irving, Poe, Hawthorne, Emerson, Thoreau, Whitman, and others. — Staff

AL 202 American Literature — Fall, Spring
A study in the growth of American literature from the second half of the nineteenth century to the present day, as emerging from its cultural backgrounds, and the significance of its major writers: Melville, Twain, James, Crane, Faulkner, Frost, Eliot, Stevens, Hemingway, and others. (AL 201.) — Staff

AL 301 The American Novel — Fall
The development of the American novel: the meaning and structure of the novels of the nineteenth century focusing on particular novels of Cooper, Hawthorne, Melville, Twain, Howells, James, Crane, Norris , and Dreiser. (AL 202 or permission.) — Mr. Munford

AL 302 The American Novel (Spring) — Mr. Munford

AL 401 The American Short Story (Spring) — Mr. Beck

AL 402 Emerson, Whitman, Melville — Fall
A study in depth of three of America's most important writers, representatives of America's most important literary period, the American Renaissance. Most attention will be given to Whitman and Melville, with Emerson used as intellectual background. Offered in alternate years. — Mr. Stitt

AL 403 The American Landscape in Prose (Spring) — Mr. Conron

AL 404 Modern American Poetry (Spring) — Mr. Pack

(AL 405 American Criticism) To be offered in 1973-74.

AL 406 Black American Literature — Fall

An introductory study of the evolution of Black American poetry and prose narrative from the 19th Century to contemporary times. Literature to be studied will include selections of slave narratives, folk tales, folk sermons, speeches, short stories, poems, and possibly novels. (AL 202 or permission. Limited to 15 students.) Mr. Conron

AL 407 American Biography — Fall

A study of the growth of the American mind in the context of the social and intellectual backgrounds, exemplified in the Puritan biographies and in the autobiographies of U. S. Grant, Henry Adams, Lincoln Steffens, James Baldwin, Malcolm X, and in the biographies of Lee, Lincoln, Henry Ford, and others. (AL 202 or one year of American history.) Offered in alternate years. Mr. Munford

AL 410 Seminar: Studies in Contemporary American Poetry (Spring) — Mr. Stitt

AL 412 Folklore and Mythology — Fall

An analysis of the backgrounds of American folklore with emphasis on the material as it serves both to form our cultural heritage and shape American Literature. (AL 201 or permission.) Mr. Beck

AL 500 Special Research — Fall, Spring

Open to individual qualified majors. (Permission.) Staff

AL 700 Senior Research — Fall, Winter, Spring

For Senior majors who are candidates for Departmental Honors. Staff

AL 704 Senior Seminar — Fall

A study of general topics based upon selected readings of fiction, poetry and drama and on the students' general knowledge of the field of American Literature. Each student will present a short report and write a paper on a topic to be chosen in consultation with one of the participating faculty members. (Senior Majors.) Mr. Munford

AL 705 Independent Study (Spring) — Mr. Stitt

THE PROGRAM IN AMERICAN STUDIES

This program offers students an opportunity to work in related aspects of American culture in various departments and in Junior and Senior seminars which integrate the student's course of study.

1. AL 201, 202 (or for qualified students other courses approved by the Department).
2. HI 203, 204 (or for qualified students other courses approved by the Department).
3. Three additional courses will be required in AL and HI, with at least one in each department.
4. Four courses in departments other than AL and HI such as Art, Economics, Political Science, Religion, Sociology or, until other courses are offered, independent work in American Philosophy.
5. In the second semester of the Junior year a seminar, with one faculty member responsible for organization and with the participation of other faculty when their particular interests would contribute to the subject.
6. A seminar and thesis in the senior year.

This is a total course requirement of 14. The student will be designated as a major in History-American Studies or American Literature-American Studies.

AS 400 Seminar in American Studies (Spring) Staff
An introduction to the literature and writing of American Studies, focused on a particular theme or aspect of the American experience.

AS 700 Independent Study Fall
For student s who have qualified for the American Studies Senior Program by virtue of their work in AS 400, the Junior Seminar. Under the guidance of a faculty member, each student will do research on some aspect of American culture. (AS 400)

AS 704 Senior Seminar - Thesis (Spring) Staff
In weekly meetings, students who have taken AS 700 will report on the results of their research for criticism and discussion, and assign common readings for the group. The thesis will be submitted at the end of the year, not later than April 15.

Faculty Advisers: Mr. Catton, Mr. Ferm, Mr. Munford, Mr. Nelson, Mr. Stitt. Students in the Program must also consult with a member of the American Literature or History Departments concerning their course selection.

ART

Required for the major: In the belief that experience in both the practice and history of art constitutes the most rewarding program, the Department requires both AR 101, Introduction to the Visual Arts (or AR 102, Twentieth Century Painting and Sculpture), and AR 103-104, Introduction to Design, of its beginning students. Completion of these courses with a grade of C or better qualifies a student for the major.

Students may complete their requirements in either of two ways:

Alternative A: six additional courses in the history of art, plus senior work.

Alternative B: four additional studio courses, and four additional courses in the history of art (two of which shall have as their subject art before 1800), plus senior work.

Senior work:

Alternative A: Students elect two terms of AR 700, normally Fall and Winter, and write a senior thesis.

or

Students elect two terms of AR 700 in areas in which they have already done course work, and write two senior essays.

Alternative B: Students elect at least two studio courses beyond the six required for the major.

or

With permission of the Department, students elect AR 700 in each of the three terms, and carry out a sustained studio project, normally in one medium.

Honors: are awarded to students who do outstanding work in studio or art history. Normally a senior thesis or a portfolio produced during senior year must be presented by candidates for honors.

AR 101 Introduction to the Visual Arts Fall
An introduction to form and meaning in the arts of sculpture, architecture, and painting. Major figures and movements of western art will be considered in lectures, while the student will be

encouraged to develop his own critical sense through preceptorial discussion and short papers on original works of art. Two lectures and one discussion period. Open to freshmen and sophomores, and to upperclassmen by permission. Mr. Andres

AR 102 Twentieth Century Painting and Sculpture (Spring) Mr. Reiff

AR 103 Introduction to Design Fall
Line, color, form, subject matter and composition are studied separately and together in projects related to picture making so as to increase the students' comprehension of the picture as an expressive, visual language. Limited to 30 students. (AR 104 must be passed before credit for AR 103 will be given.) Mr. Bumbeck and Studio Staff

AR 104 Introduction to Design (Spring) Mr. Bumbeck and Studio Staff

AR 201 Art of the Italian Renaissance (Spring) Mr. Andres

(AR 203 The Art of India) To be offered in 1973-74.

AR 204 The Art of China (Spring) Mr. Reiff

AR 205 Figure Drawing Fall
A studio course in the discipline of figure drawing. Working from the model, the student will make intensive study drawings concerning problems of proportion, distortion, scale, and motion. Limited to 30 students. Mr. Bumbeck and Studio Staff

AR 206 Figure Drawing (Spring) Mr. Bumbeck and Studio Staff

AR 207 American Art Fall
The intention of this course is to examine American Art and architecture in the context of its European heritage, particularly that of England. From colonial times to the Armory Show, selected problems will be considered to determine the extent of America's aesthetic dependence on Europe, as well as the degree to which an independent tradition has been established. Two lectures per week. Mr. Hunisak

AR 301 Modern Architecture (Spring) Mr. Andres

(AR 302 Baroque Art in Europe) To be offered in 1973-74.

AR 303 The Art of Northern Europe, 1300 to 1600 Fall
The Art of France, Germany and the Low Countries is seen as an extension and after life of earlier Medieval Art and as a response to the needs and taste of the rising middle class, as well as a reflection of the new humane spirit of the Italian Renaissance. A chief concern of the course will be the understanding of the historical development of northern realism.
Mr. Stone

AR 305 Art of the Nineteenth Century (Spring) Mr. Hunisak

(AR 307 The Art of the City) To be offered in 1973-74.

AR 309 Painting Fall
An introductory course in the practice of painting. The first semester will be exploratory in

character. The student will use various media (charcoal, pencil, ink, and paint) in order to establish a working familiarity with the forms of composition and picture-making. Limited to 30 students. (AR 103, AR 104 or permission.)

AR 310 Painting (Spring)

AR 311 Ancient Art Fall
In a given year this course will focus on the art of one or more of the ancient western civilizations. 1972-73: An artistic history of Rome. Roman civilization mirrored by eight centuries of art and architecture -- on the surface eclectic and derivative, beneath manifesting the technical, organizational, and propagandistic brilliance that was Rome. Mr. Andres

AR 313 The Art and Architecture of Medieval Europe, 700-1400 Fall
An introduction to the Medieval World, with emphasis upon its material richness and spiritual intensity as seen through the building, painting and sculpture of the Church. Particular stress is placed upon the development of non-natural and non-realistic styles in painting and sculpture as a means of conveying the message of Christianity. Mr. Stone

AR 315 Printmaking Fall
Studio instruction in traditional and contemporary methods of intaglio and relief printmaking. Critical emphasis on the union of the printmaking craft with problems of drawing, painting and design. Limited to 20 students. (AR 103, AR 104 or permission.) Mr. Bumbeck

AR 316 Printmaking (Spring) Mr. Bumbeck

AR 317 Leonardo da Vinci Fall
An intensive examination of Leonardo the engineer, inventor, and artist, both in the context of his times, and in the thought of later centuries. The first part of the course will examine Leonardo as a central figure of Renaissance art and intellectual history, while the second will explore his importance in the thought of such figures as Walter Pater, Sigmund Freud, and Paul Valéry. Two substantial papers. (AR 201, or permission.) Mr. Turner

AR 319 Sculpture Fall
An introduction to sculpture. A variety of experiences in various media and diverse problems of design will be stressed. (AR 103, AR 104, or permission.)

AR 320 Sculpture (Spring)

AR 401 Seminar in Modern Art Fall
A major sequence or issue in nineteenth and twentieth century art will be considered in a given year. In 1972-73, the subject will be Surrealism. Mr. Hunisak

AR 500 Advanced Studies in the Visual Arts
Supervised independent work in art history or studio. Staff

AR 700 Senior Independent Study Staff

BIOLOGY

The Department of Biology offers programs of study in a broad spectrum of areas, ranging from life processes at the molecular level to the interrelationships of whole organisms and

their environments. The Major Program is designed to enable the liberal arts student to understand the biological world and man's role in it, as well as to prepare students for graduate and professional schools. The Department is well equipped to offer laboratory study and student research opportunities in many areas. In addition, the geographical location of Middlebury College, with thousands of acres nearby owned by the College or within the Green Mountain National Forest, provides an excellent outdoor laboratory for ecological studies.

Each student electing a Biology major plans his program of courses in close consultation with a faculty adviser within the Department. This program will include BI 110, other Biology courses to bring the total within the Department to at least 10, and at least 3 cognate courses chosen from the offerings of the departments of Chemistry, Physics and Mathematics. This procedure is intended to allow the student maximum flexibility in designing a major program which fits his individual interests while providing him the guidance needed to avoid mistakes which might hamper his future career.

A separate, joint major with Chemistry has been developed to enable students to study aspects of both fields without having to take all the courses prescribed for a pure major in either field. The Department also participates in the interdisciplinary Environmental Studies major. Special major programs involving biology and other fields can be arranged to suit individual needs.

Students planning careers which require graduate or professional school training involving biology should be familiar with the subject matter included in CH 101, CH 241, and CH 242; MA 112; and PH 109, and PH 110, in addition to their biology program. Some medical and graduate schools expect additional courses in mathematics and chemistry. Students who anticipate applying to graduate or professional school programs will be urged by their advisers to include appropriate courses in their programs.

The Department admits a limited number of graduate students as candidates for the Degree of Master of Science in Biology. The requirements of this program include research, a thesis, an oral examination, and some assisting in undergraduate laboratories.

Courses designated with an asterisk* may be taken without laboratory under the following conditions: (1) The stated prerequisites for the course must be met. (2) Students majoring in Biology or jointly in Biology and other subjects may not count such courses toward the fulfillment of the major.

Required for a Major: BI 110; 9 elective courses within the Biology Department; 3 cognates chosen from Chemistry, Mathematics, and Physics. Courses with optional laboratories in Chemistry and Physics must be taken with laboratory to fulfill this cognate requirement. Recommended: see list above, advised as preparation for graduate and professional schools.

Required for a Joint Major in Biology and Chemistry: see description under Chemistry.

Honors Program: students should apply during the Spring Term of the Junior year. Honors are awarded on the basis of an Advanced Study (BI 500) project of superior quality and satisfactory completion of requirements to be specified by the Department.

BI 103 Biology and its Implications for Humans Fall

A course designed for students not intending to major in Biology emphasizing to some degree the bearing of the findings of Biology on our own species. Topics to be discussed will include the relations of organisms to their environments; levels of organization from molecules to populations; cell and species continuity (genetics and evolution); human genetics; and animal and human behavior. Laboratories will both supplement and complement lecture material, and will include seminar discussions on such topics as population pressures and human behavior. 3 hrs. lect., 3 hrs. lab. Miss Tepperman

BI 110 Concepts of Modern Biology Fall

Designed for the student intending to major in biology or related fields, this course will provide a conceptual background for his later studies. The nature of adaptation at all levels of biological organization -- from molecules through cell s and organisms to populations -- will be explored, as well as the basis of adaptation in gene action and its maintenance by natural selection. Lectures will discuss concepts in such areas as energy metabolism, plant and animal physiology, populations and communities, and speciation. Laboratory work, supplementing lecture material, will stress interpretation of information obtained from experiments and individual observations. 3 hrs. lecture, 3 hrs. lab.

Mr. Bell

*BI 201 Invertebrate Biology (Spring) Mr. Watters

*BI 203 Plant Form and Function Fall

The structure and physiology of higher plants. Photosynthesis, water relations, ion and organic movement all will be discussed with regard to the structure of the organs involved. Limited coverage of plant taxonomy and the evolution of reproduction. Four or five laboratory exercises and one experiment to be conceived and performed by the student are required. (BI 110, CH 241). 3 hrs. lect., 4 hrs. lab.

Mr. Greenwood

*BI 205 The Developmental Biology of Plants and Animals (Spring) Mr. Greenwood

BI 210 Biology of the Vertebrates - Coordination and Irritability Fall

The structure and function of organs and organ systems in the Phylum Chordata, with emphasis on the higher vertebrates. The evolutionary approach will be used to show the similarities and differences within and between various classes. Gross anatomy and physiology will be emphasized, with less extensive coverage given to histology, ultrastructure and embryology. Consideration of function primarily at the level of organs and organ systems. Laboratory designed to acquaint students with diversity of quantitative physiological techniques. Systems covered will include skeletal, nervous, endocrine, and muscular. Laboratory study of shark, Necturus and cat, designed to supplement lectures and develop skill in dissection. (CH 101, BI 103 or BI 110, or permission.) 3 hrs. lect., 4 hrs. lab.

Mr. Van Vleck

BI 211 Biology of the Vertebrates - Homeostasis (Spring) Mr. Van Vleck

BI 305 Microbial Ecology (Spring) Mr. Bell

BI 311 General Ecology Fall

The organism in relation to the abiotic environment. A critical investigation into how the physical and chemical microclimates of fresh-water, marine and terrestrial habitats affect the position and number of organisms. Human influence on the natural environment will be considered. Laboratory exercises include field trips to study environmental parameters with two or more weekend trips to study a lake and its watershed as a sample ecosystem followed by laboratory analysis of data collected. Laboratory reports and term paper required. (BI 103 or 110) 3 hrs. lect., 3 hrs. lab.

Mr. Woodin

BI 312 General Ecology (Spring) Mr. Woodin

*BI 314 Genetics (Spring) Miss Tepperman

(*BI 316 Animal Behavior) To be offered in 1973-74.

BI 350 Topics in Cellular Biology — Fall

Emphasis on the integrative organization of cellular structure and function, especially with respect to the acquisition, transformation, and utilization of energy. A critical and experimental approach to the study of cellular phenomena will be stressed and in part will involve physical and chemical concepts and methods. Laboratory experiments are designed to implement this approach. (BI 110, CH 241 or permission.) 3 hrs. lecture, 4 hrs. laboratory. Mr. Watters

(BI 401 Advanced Genetics) To be offered in 1973-74.

(BI 408 Current Problems in Cellular and Developmental Biology) To be offered in 1973-74.

(BI 410 Adaptation and Evolution) To be offered in 1973-74.

BI 500 Advanced Study — Fall, Winter, Spring

A project involving laboratory research or extensive library study on a topic chosen by the student and a faculty adviser. For majors in Biology. (Permission.) Staff

BI 750 Senior Work (Environmental Studies) — Fall, Winter, Spring

Independent Study - Senior Thesis

Independent Study, normally involving a laboratory or field research project for any two of the three senior terms. Required of Environmental Studies majors specializing in ecology. Not open to Biology majors. Staff

BI 900 Research and Thesis — Fall, Winter, Spring

Required for all candidates for the Master's degree. Staff

CHEMISTRY

The Department of Chemistry believes that the basic program required of all majors provides a firm foundation in fundamental principles on which individual students may build to accommodate a variety of objectives including secondary school teaching, a position in industry or advanced work in graduate or professional school. Although non-majors may take, with the exception of CH 412, any laboratory course in the department without the laboratory, courses constituting a part of a major in chemistry must be taken with laboratory. The Department of Chemistry is accredited by the American Chemical Society and students taking the appropriate electives may be certified by the Society.

Required for a Major: CH 101*, CH 131, CH 211, CH 241, CH 242, CH 351 plus four elective courses within the Department; MA 112, MA 113, PH 109 and PH 110. Two, or three units of independent study may be included in the four required chemistry electives. Students with a professional interest in chemistry are encouraged to elect CH 341, CH 352, CH 421, CH 431, CH 452, two course credits of independent study, MA 201, MA 202 and GN 101, GN 102 or RU 101, RU 102.

Joint Major in Biology and Chemistry: Required for a major: Biology BI 110, and four electives in Biology; Chemistry: CH 101*, CH 131, CH 211, CH 241, CH 242, CH 351; MA 112, MA 113, PH 109, PH 110 and three additional electives from Biology, Chemistry, Mathematics or Physics.

A deposit fee to cover cost of broken apparatus is charged in each laboratory course, to be paid at the beginning of each term.

*CH 101 is the normal introductory course in Chemistry. However, many students qualify for permission to omit CH 101 and begin their studies in Chemistry with CH 211 or CH 131, or CH 241. Consult the Chairman of the Department.

CH 101 Fundamentals of Chemistry Fall and Spring
Fundamental principles of Chemistry. Atomic theory and atomic structure, chemical bonds, stoichiometry, kinetic theory and the states of matter. Problem drill, conferences. Laboratory work deals with the testing of theories by various quantitative methods. Students with adequate secondary school preparation are encouraged to consult the Department for permission to elect Chemistry CH 211, CH 131, or CH 241 in place of this course. 3 hrs. lect., 4 hrs. lab. Breakage fee. Mr. Gleason

CH 107 Same as CH 101 but without the laboratory.

CH 102 Environmental Chemistry (Spring) Mr. Pool

CH 108 Same as CH 102 but without the laboratory.

CH 131 Systematic Inorganic Chemistry Fall and Spring
A systematic study of the elements and their compounds based on the Periodic Table. The isolation of the elements from their natural sources, and the synthesis of some important types of inorganic compounds. The properties of selected elements and their compounds are discussed in class and/or studied in the laboratory using various analytical methods. (CH 101 or permission.) 3 hrs. lect., 3 hrs. lab. Breakage fee. Mr. Pool

CH 137 Same as CH 131 but without the laboratory.

CH 211 Analytical Chemistry I Fall
Extensive treatment of mass action theory (ionic equilibrium) concerned mainly with ionization of strong and weak electrolytes, buffers, hydrolysis, solubility of difficultly soluble substances, complex formation, oxidation-reduction systems, and quantitative measurements involving these phenomena. Laboratory work is mainly titrimetric analysis with some gravimetric methods. (CH 101 or permission.) 3 hrs. lect., 6 hrs. lab. Breakage fee. Mr. Pool

CH 217 Same as CH 211 but without the laboratory.

CH 241, CH 242 Organic Chemistry I and II Fall and Spring
An introduction to the study of the compounds, both aliphatic and aromatic, of carbon. The approach is based on the properties of functional groups with considerable emphasis on electronic theory and reaction mechanisms. Laboratory exercises involving the synthesis of organic compounds, the analysis of various classes of compounds and the identification of unknowns complement the lecture material. (CH 101 or permission; CH 241 must precede CH 242.) 3 hrs. lect., 6 hrs. lab. Breakage fee. Mr. Gleason, Mr. Harnest

CH 247, CH 248 Same as CH 241, CH 242 but without the laboratory.

CH 341 Organic Chemistry III Fall
Fundamental organic chemistry beyond the monofunctional compounds. Heterocyclic and polyfunctional species are emphasized, including treatment of monosaccharides, disaccharides and amino acids. The main focus of the laboratory will be identification of organic compounds with heavy reliance on modern instrumentation, particularly infrared and nuclear magnetic resonance

spectroscopy. Experience will be gained in handling mixtures as well as single compounds, but identification requirements will be tailored not to exceed the specified six hours of laboratory work. (CH 242). 3 hrs. lect., 6 hrs. lab. optional. Breakage fee. Mr. Ledlie

CH 347 Same as CH 341 but without the laboratory.

CH 351 Physical Chemistry I Fall
A study of the properties of gases, liquids, and solutions. The laws of thermodynamics are developed and applied to simple chemical systems and to chemical equilibrium. Chemical kinetics is treated empirically with consideration given to the order and molecularity of reactions and the effect of temperature. (MA 113, PH 109, plus 2 semester courses in chemistry.) 3 hrs. lect., 4 hrs. lab. Breakage fee. Mr. Schuh

CH 357 Same as CH 351 but without the laboratory.

(CH 352 Physical Chemistry II) To be offered in 1973-74.

(CH 358 Physical Chemistry II without laboratory) To be offered in 1973-74.

(CH 412 Advanced Analytical Chemistry) To be offered in 1973-74.

CH 421 Biochemistry Fall
A study of the classification, structures, and chemistry of lipids, proteins, and the nucleotides. Enzyme nomenclature and the classification and characteristics of enzymes. Digestion, absorption, and metabolism of lipids and proteins. (CH 242, CH 351, or permission; Biology BI 110 is recommended.) 3 hrs. lect. Mr. Schuh

CH 422 Biochemistry (Spring) Mr. Schuh

(CH 431 Advanced Inorganic Chemistry) To be offered in 1973-74.

CH 442 Advanced Organic Chemistry (Spring) Mr. Ledlie

(CH 443 Advanced Organic Chemistry) To be offered in 1973-74.

CH 452 Physical Chemistry III (Spring) Mr. Roberts

CH 500 Independent Study Project Fall, Winter, Spring
Individual Study for qualified students. Permission. Breakage fee. Staff

CH 700 Senior Work Fall, Winter, Spring
Senior majors may register for two or three course equivalents. The student plans and carries out a laboratory research project generally related to current faculty research interests. This work is normally culminated by the writing of a senior thesis.

CLASSICS

The principal aims of courses in the Classics are to enable the student to attain a rapid and accurate reading knowledge of Greek or Latin, and then to read broadly while developing critical skill and a sense of the art of language. Greek and Latin literatures are understood to

be an embodiment of deep spiritual and artistic concern, and the major literary achievements are studied in this light. Students contemplating a major should talk with the Chairman.

Classics in Translation

(CL 271 Greek Intellectual History) To be offered in 1973-74.

(CL 272 Greek Tragedy) Not offered in 1972-73.

CL 273 Introduction to Greek Scientific Thought Fall
Of the vast amount of written material which we inherit from the Ancient World, a small segment is set aside and studied with much detail: The major tradition in Literature of the Fifth and some of the Fourth Centuries B.C. This course will study the other traditions, and try to evaluate their meaning, both historical and germinative, to our new Post Industrial World. Major work wil be in Pre-Socratic thought, early mathematics, Medicine, Euclid and the developers of mathematical thinking from Archimedes to Pappus. No scientific background is required. Mr. Harris

Latin

CL 101 Elementary Latin Fall
An introduction to the Latin language and literature. Grammar, exercises and readings from the textbook will be supplemented with selections from ancient and medieval prose and poetry. (CL 102 must be passed before credit for CL 101 is given.) Miss Heibges

CL 102 Elementary Latin (Spring) Miss Heibges

CL 201 Intermediate Latin Fall
Selections from Cicero's Orations, Philosophical Essays and Livy's Ab Urbe Condita will be read and discussed against their historical background. A stylistic analysis of the two Latin prose writers will be combined with a grammar review. (Prerequisite: CL 101-2, or two or three years of secondary school Latin.) The class meets three hours a week. Miss Heibges

CL 202 Intermediate Latin (Spring) Miss Heibges

CL 301 Advanced Latin Fall
One of the following courses will be offered depending on the interests or needs of the students:

a) Roman Drama: Two Comedies of Plautus
b) Latin Lyric Poetry: Catullus and Horace
c) Roman Philosophy: Selections from Cicero and Seneca
d) Roman Satirical Writing: Lucilius and Horace
e) Roman Historiography: Caesar and Sallust
f) Vergil: An intensive study of two books of the Aeneid
g) Ovid: Selections from the Metamorphoses Miss Heibges

CL 302 Advanced Latin (Spring) Miss Heibges

Greek

CL 103 Elementary Greek Fall
The course is intended to bring the student through the various stages of Greek grammar and

syntax and introduce him to unalered ancient Greek texts, so that by the end of the first year's work, he has a beginning tool for the study of documents from the ancient Greek culture. Work will be fairly accelerated, especially in the first term. (CL 104 must be passed before credit for CL 103 is given.) Mr. Harris

CL 104 Elementary Greek (Spring) Mr. Harris

CL 550 Independent Study Fall and Spring
Students will select an author or area not previously studied and work largely on their own, conferring weekly with the staff about problems in language and interpretation as they arise.
Staff

ECONOMICS

The Economics curriculum is designed to meet the needs of both non-majors and majors. The principal service course, Contemporary Economic Problems, introduces students to the economic analysis of important national issues such as inflation, unemployment, monetary policy, trade policy, competition and monopoly, and poverty. This course functions both as a terminal experience and as a pre-requisite for all other Economics courses except Economics 210 and Economics 220. Its emphasis is changed continually to reflect new problems and concerns.

The Major concentration is composed of two "tool" courses - Accounting and Statistics; two "core" courses - Microeconom c Theory and Macroeconomic Theory; and five elective courses. An Honors Seminar is offered for senior majors.

Required for a Major in Economics: EC 150 (or 101 and 102), EC 210, EC 220, EC 350, and EC 355. In addition five electives must be chosen including at least one 400 level course. The Department strongly recommends that Economics majors take MA 112 Mathematical Analysis I or its equivalent early in their program. Majors should also consult with their Department adviser for other appropriate cognate courses.

Students considering graduate programs in (i) Economics, are strongly recommended to take EC 210, EC 310 and EC 410; (ii) Business, EC 210, EC 220, and EC 320; (iii) Law, EC 220.

EC 150 Contemporary Economic Problems Fall and Spring
An introduction to economic problem solving for students seeking to achieve a better understanding of the economic forces governing society. Mr. Claudon, Mr. Stevenson, Mr. Wolff

EC 210 Economic Statistics Fall
A study of the theory and applications of statistical analysis. Mr. Waters

EC 220 Principles of Accounting (Spring) Mr. Craven

(EC 230 The Industrial Revolution and its Antecedents) To be offered in 1973-74.

EC 260 Consumer Economics Fall
A critical examination of "consumer sovereignty" in the American economy. (EC 150 or EC 101 or EC 102) Mr. Craven

(EC 270 Public Finance) To be offered in 1973-74.

EC 280 Labor Economics (Spring) Mr. Stevenson
(EC 150 or EC 101)

EC 310 Mathematical Economics Fall
An introduction to the applications of mathematical methods to economic theory. (This course assumes no mathematical background other than high school algebra.) (EC 150 or EC 101 or EC 102.) Mr. Waters

(EC 320 The Economics of Corporate Behavior) To be offered in 1973-74.

EC 330 The Ecnomics of Development (Spring) Mr. Wolff
(EC 150 or EC 101 or EC 102)

EC 335 Comparative Economic Systems Fall
An analysis of the alternative methods proposed and used for solving the universal economic problems under different social and political philosophies and forms of government. (EC 150 or EC 101 or EC 102.) Mr. Stevenson

EC 350 Microeconomic Theory Fall
An analysis of the theory of consumption, production, market structures. (EC 150 or EC 101.) Mr. Claudon

EC 355 Macroecnomic Theory (Spring) Ms. Schneider

EC 360 Urban Economics (Spring) Ms. Schneider

(EC 365 Environmental Economics) To be offered in 1973-74. (Juniors and Seniors only)

EC 370 Monetary Theory and Institutions Fall
An introduction to the nature and role of money in an economic system; historical development of the United States financial and Federal Reserve systems; role of money in Classical and Keynesian theory; central bank policy; international monetary systems. Ms. Schneider

EC 380 Industrial Organization and Public Policy Fall
The structure and performance of American industry in the light of economic theory are closely examined. Public policies toward business are reviewed and evaluated. (EC 150 or EC 102) Mr. Craven

EC 410 Econometrics (Spring) Mr. Waters
(EC 210; 350 or 355)

EC 415 Economic Growth (Spring) Mr. Waters
(EC 310 or equivaent)

EC 440 The Economics of International Trade (Spring) Mr. Claudon

EC 450 History of Economic Thought Fall
A study of the great thinkers in Economics against the background of their times. (EC 350) Mr. Wolff

EC 470 Macroeconomic Policy Fall
A study of public policies affecting aggregate output, employment, prices, fluctuations, and

growth. Emphasis will be on fiscal, monetary, and debt management policies employed in the United States. (EC 355) Ms. Schneider

EC 480 Radical Economics (Spring) Mr. Craven
(EC 350 and EC 355)

EC 490 Honors Seminar Fall
Individual research topics selected. Problems of research methodology common to the group are studied and discussed. Bibliography and detailed outline are developed under close supervision. (Permission.) Staff

EC 500 Individual Special Projects Fall and/or Spring
(Permission.) Staff

ENGLISH AND DRAMA

The Department offers majors in English Literature and in Drama. The symbol ED is used to designate all courses offered by the Department, e.g., ED 103, ED 235, ED 442, etc.

Because of the varied nature of the Department's offerings, courses are differentiated by their second and third digits in the following manner:

Literature (00-19)	Theatre Arts (40-59)
Dramatic Literature (20-39)	Writing (60-79)

The Freshman Writing Program

All students must elect in the freshman year one of the courses in the writing program: these include all courses in English-Drama at the 100 level, American Literature 201, and approved Winter Term writing courses. These are courses designed to develop and improve the skills of written communication; they are taught in sections of limited enrollment, require frequent written assignments, and proceed through close correction of papers, class discussion of both particular and general problems of writing and, as may be necessary, individual conferences. Satisfactory completion of one of these courses is a graduation requirement.

ED 101 Narrative Fiction Fall and Spring
An encounter with the complex fictional worlds of D.H. Lawrence, James Joyce, William Faulkner, and other writers, mostly from the modern period. The student assesses and writes about personal experience in papers which serve as introductions to the novels and short stries. As the relevance of personal experience diminishes, the student moves beyond it, in writing, to a sense of the validity of the reading experience itself. These papers, together with the fictional works, form the topic of class discussion. Mr. Price and Staff

ED 103 Lyric and Narrative Poetry Fall and Spring
The course concentrates on close analysis of selected poems both traditional and modern, mainly on the themes of romance and marriage. It will savor the musical, metaphorical and dramatic aspects of poetry, the relationship between voice and implication, between sound and sense. "Every poem is a new metaphor inside or it is nothing."--Robert Frost. "I do not know which to prefer./ The beauty of inflections/or the beauty of innuendoes."--Wallace Stevens. Mr. Pack and Staff

ED 105 Drama Fall and Spring

Play within play: an examination of how the theatre and the cinema sometimes take their own forms as a principal motif and a central figurative convention. Works studied will include Shakespeare's A Midsummer Night's Dream and Twelfth Night; Johnson's Volpone; Beckett's Endgame; Vigo's Zero de Conduite; and Fellini's 8 1/2. Mr. Teush and Staff

ED 160 Sensibility Fall and Spring

The examination of the multiple self through writing. The subject matter of the course is provided in the main from the student's own experience. Students submit written work for each class and thereby supply subjects for discussion in subsequent classes. Mr. Hill and Staff

ED 170 Prose Fiction I Fall and Spring

The emphasis will be on the writing of short fiction. There will be three kinds of activities, out of which will come the subject matter for class discussions and for individual conferences with the instructor: (1) each student will write during the term a group of at least five or six stories or related episodes; (2) in addition, a series of writing assignments drawing on the student's own experiences will provide exercises in the creation of structure, and in the manipulation of point of view, means of perception, and voice; (3) several collections of short stories in the modern tradition will be read and discussed closely. Mr. Martin and Staff

ED 175 Poetry I Fall

Each student will write at least one poem a week, exploring a variety of poetic forms. The class wil examine closely and critically poems written by students and published poets, when possible tracing development of published poems through drafts. Mr. Conron

Major Programs

Required for a Major in English are (1) Interpretation of Literature: an Historical Approach (ED 201-202) or the Qualifying Examination; (2) Distribution Courses: five courses in literature, one chosen from each of the following groups: A, ED 211, 227, 308,404; B, ED 224, 303, 304, 321; C, ED 206, 305, 306; D, ED 207, 235, 313, 314, AL 301; E, ED 208, 212, 325, 326, AL 302, AL 404; (3) the Senior Program.

The Qualifying Examination will test the student's ability to interpret literature critically and will examine his grasp and comprehension of literary works in an historical context. The Qualifying Examination will be offered twice: once during the regular examination period at the end of the second semester, when it will incorporate the final examination in ED 202, and again in September on the Friday morning before College begins. Any student, with the Department's permission, may take the Qualifying Examination whether he has been enrolled in ED 201-202 or not; a student who does not qualify during the second-semester examination period may take the Qualifying Examination again in September, although his grade in ED 202 will not be affected.

The Senior Program in English includes a Senior Essay or Honors Thesis and the General Examination. The Senior Essay is a one-term project; the Honors Thesis is a two-term project. Majors who have taken a writing course and an independent study project in writing may petition to undertake a creative writing project as Senior Essay or Honors Thesis. Each Senior is assigned to a faculty member for guidance in his essay or honors thesis. The General Examination receives one course-credit. The examination will be based on a general reading list and on the reading list of the Distribution Courses. Departmental honors will be awarded on the basis of grades in the General Examination and the Honors Thesis or the Senior Essay.

Required for a Major in Drama are (1) ED 241-242 or the Qualifying Examination; (2) Distribution Courses: four courses in dramatic literature including Greek and Roman, Shakespeare, Nineteenth Century, and Modern; (3) Two additional courses in the 40-series (theatre arts); (4) Participation in three production seminars, not necessarily for credit; (5) The Senior Program.

The Senior Program in Drama includes a Senior Project or Honors Project and the General Examination. (See details under English Major.) Each senior is expected to master a general reading list and review the reading lists of his Distribution Courses and his work in other theatre arts courses. Honors will be awarded as for the English Major.

Upper Division Courses

Literature

ED 201 Interpretation of Literature: Chaucer, Shakespeare, and Milton Fall
Through discussion, papers, independent study, and lectures, major works by Chaucer, Shakespeare, and Milton will be considered: The Canterbury Tales (selections); Antony and Cleopatra; Othello; Coriolanus; Paradise Lost. (Sophomores, Juniors, Seniors) Mr. Prickitt and Staff

ED 202 Interpretation of Literature (Spring) Mr. Prickitt and Staff

ED 206 The Early Novel Fall
The rise of the novel as an art form: John Bunyan to Jane Austen. Novelists to be read include Bunyan, Defoe, Richardson, Fielding, Smollett, Sterne, Walpole, Ann Radcliffe, and Jane Austen.
Mr. Prickitt

(ED 207 Nineteenth Century Fiction) To be offered in 1973-74.

ED 208 The Twentieth Century English Novel (Spring) Mr. Price

ED 210 Comparative Fiction (Spring) Mr. Sparks

ED 211 Classics of Literature: Greece Fall
A study in translation of ancient Greek epic, tragedy, and comedy. The course emphasizes literary appreciation; historical, cultural, and archeological materials, though important, are ancillary. Readings will include the Iliad and Odyssey by Homer, the Oresteia by Aeschylus, and selected plays by Sophocles, Euripides, and Aristophanes. Mr. Littlefield

(ED 212 Modern British Poetry) To be offered in 1973-74.

(ED 303 Introduction to Literature of the English and Continental Renaissance: 1500-1610) To be offered in 1973-74.

ED 304 Poetry and Prose of the Age of Milton (Spring)

(ED 305 Poetry and Prose of the English Augustan Age) To be offered in 1973-74.

(ED 306 Prose and Poetry of the Age of Johnson) To be offered in 1974-75.

ED 308 Classics of Literature: Rome

ED 313 Prose and Poetry of the Romantic Period Fall

Reading in selected poetry and prose of Blake, Coleridge, Wordsworth, Keats, Shelley and Byron. (Sophomores by permission.) Mr. Cabot

ED 314 Prose and Poetry of the Victorian Period (Spring) Mr. Hill

ED 401 Seminar: Keats Fall
All of Keats' poetry and selected letters. In depth study of as many major poems as time allows. (Permission.) Mr. Hill

ED 404 Chaucer (Spring) Mr. Martin

ED 405 Seminar: Joseph Conrad Fall
A reading of the major novels and tales, including Lord Jim, Nostromo, The Secret Agent, Under Western Eyes, Victory, The Shadow Line, Typhoon, Youth, Heart of Darkness, and others. Essays by Henry James, sea stories by Richard Henry Dana and Herman Melville, and other works not written by Conrad himself may be introduced for purposes of comparison and for determining influence and compatible literary concerns. (Permission.) Mr. Price

ED 407 Seminar: Restoration Drama (Spring) Mr. Prickitt

ED 408 Seminar: Milton (Spring)

ED 409 Seminar: Dickens (Spring) Mr. Cabot

Dramatic Literature

ED 224 English Drama to 1642

(ED 227 Greek and Roman Drama) To be offered in 1973-74.

ED 235 Sources of Contemporary Drama Fall
A study of radical, moral, intellectual, and esthetic trends of 19th century drama. Intensive reading of selected plays and theoretical writings of Goethe, Kleist, Ibsen and Strindberg with some consideration of Jarry and Artaud. Mr. Teush

ED 321 Shakespeare Fall
An intensive critical study of Romeo and Juliet, Richard II, 1 Henry IV, Hamlet, King Lear and Macbeth. (Juniors and Seniors.) Mr. Cubeta

ED 323 Shakespeare (Spring) Mr. Pack

(ED 325 Modern Drama: 1870-1920)

ED 326 Modern Drama: 1920 to the Present (Spring) Mr. Volkert

(ED 327 American Drama) To be offered in 1973-74.

ED 421 Seminar: Eugene O'Neill Fall
Intensive and extensive reading of his plays supported by biographical and critical studies leading to an appraisal of his significance as a playwright in this country and abroad. Included in the study are his early short plays; written for the Provincetown Players; successes of the

twenties and thirties such as Beyond the Horizon, The Emperor Jones, Anna Christie, The Hairy Ape, Desire Under the Elms, The Great God Brown, Strange Interlude, Mourning Becomes Electra; the transitional Ah Wilderness and Days Without End; the autobiographical The Iceman Cometh, A Moon for the Misbegotten, and Long Days Journey Into Night; from his planned historical cycle, A Touch of the Poet and Hughie. (Permission.) Mr. Volkert

Theatre Arts

(ED 241 Forms and Styles of the Theatre: An Historical Approach) To be offered in 1973-74.

(ED 242 Forms and Styles of the Theatre: An Historical Approach) To be offered in 1973-74.

ED 245 Style: Acting and Directing Fall
An exploration of modern approaches to interpreting a play in discussion and experimental sessions. Theories and plays of the modern period will be emphasized in the fall term. Theories of Stanislavski, Brecht, Artaud, Grotowski, Kott, Brook, Spolin, and others will be examined. From this course 500 projects or senior projects may be developed. (Permission.)
Mr. Volkert

ED 249 Style: Design (Stage and Scene) Fall
A series of readings, discussions, exercises, and projects in which historical and contemporary approaches to mounting plays are examined. Emphasis is on stage and scenic forms as interpretive elements in production planning. Mr. Potter

ED 250 Continuation of ED 249 (Spring) Mr. Potter

(ED 251 Style: Design (Costume)) To be offered in 1973-74.

(ED 252 Style: Design (Lighting)) To be offered in 1973-74.

ED 346 Style: Acting and Directing (Spring) Mr. Volkert

Production Seminars:
The Department offers a production seminar in conjunction with each major production. Students enrolled in these seminars take part in a two or three week period of intensive study of the play and then participate in the production of the play. Each student, with the approval of the department, defines the nature of his participation: actor, stage manager, critic, literary historian, or designer, etc. Participation may vary from playing a major role to writing an extended critical essay about the playwright. Open to freshmen and upperclassmen. (Permission.)

ED 441 Acting and Directing Fall
Mr. Volkert

ED 442 Production Fall
Mr. Potter

ED 443 Acting and Directing (Spring) Mr. Teush

ED 444 Production (Spring) Mr. Potter

Cinema

(ED 451 Film-Making)

Writing

ED 260 Factual Writing — Fall

This course offers a varied experience in factual, as opposed to fictional, writing. Each student will write a narrative; an exposition; an argument; an informal essay; an analysis; and a formal research paper, with footnotes and bibliography, subject to be chosen by the student.

Mr. Clagett

ED 270 Prose Fiction II — Fall and Spring

With the advice and editorial assistance from the instructor, students will undertake more ambitious writing projects in order to develop their talents and to broaden their sense of technique and style. Students may choose to write stories, novelettes, novels, or, in special cases, plays. Limited enrollment. (Permission.) Mr. Clagett

ED 275 Poetry II — Fall

A seminar course in which students are encouraged to undertake writing projects, with advice and editorial assistance from the instructor, in order to discover where their talents may lie and to broaden their sense of technique and style. The class will meet once a week to discuss samples of contemporary writing and each other's work. Each student will also work in conference with the instructor. Limited to twelve students. (Permission.) Mr. Pack

ED 279 Techniques of Research (Spring) — Mr. Clagett

Advanced Writing: Students may undertake advanced writing at the 500 or 700 levels. Candidates are asked to submit a description of their project and samples of their writing to a departmental committee two weeks before registration.

Special Projects

The Department will consider applications from qualified students who wish to undertake special projects in literature, dramatic literature, writing, directing, theatrearts, or film. A student proposing to undertake such a project should submit a detailed proposal to his adviser two weeks prior to registration.

ED 500, 520, 540, 560 Special Projects — Fall or Spring

Staff

Senior Program

Students majoring in the Department are required to undertake a one or two-term senior project. A student hoping to undertake a two-term honors project should normally submit an application in writing to his adviser at least two weeks prior to registration for the term during which he intends to begin his project. Intentions for one-term projects should be submitted in writing for approval no later than the end of the second week of the term in which they are to be undertaken.

ED 700, 720, 740, 760 Senior Projects — Fall, Winter and Spring

ED 705 General Examination (Spring)
Required of all majors. (See description of major.)

FRENCH

The French Department hopes to develop students' interest and competence in linguistic communication, ability to read and criticize literature in French, and familiarity with the major themes and perspectives of the French-speaking world.

We consider command of the French language to be the essential ingredient and prerequisite to serious and successful pursuit of such aims. On the other hand, we recognize that an individual student may choose to pursue one of the interrelated areas in particular, and that in any case a successful major in French will benefit not only from these interrelations but from work in related areas of intellectual activity, such as other languages and literatures, fine arts, history, philosophy, sociology, etc. Accordingly, requirements for the major are designed to develop a student's ability to read and discuss relatively omplex literary and social documents, and thereafter to leave him sufficient freedom to pursue his own particular bent, in consultation with his adviser.

Required for the major: FR 205-206 or its equivalent; four courses at the 300 level or above. Total of not less than 10 courses, ot more than 14.

Language

FR 101 Beginning French — Fall
Hearing and speaking French, with reading as a reinforcement, and grammar to help in consolidating and diversifying the patterns. Students will be encouraged to use the spoken language actively and personally. 3 class meetings and 2 drill sections per week. (For students who have already studied another foreign language. Others by permission.) Mr. Barenbaum

FR 102 Beginning French (Spring) — Mr. Barenbaum

(FR 109 Intermediate French) To be offered in 1973-74.

(FR 110 Intermediate French) To be offered in 1973-74.

FR 201 Syntax, Reading, Oral Practice and Writing — Fall
Reading and discussion of a modern play and a few articles from current French periodicals. Review of grammar according to the class'seeds. Students will write a few compositions. (For students with 3 or 4 years of average preparation in the language.) Mr. Barenbaum & Staff

FR 202 Syntax, Reading, Oral Practice and Writing (Spring) — Mr. Barenbaum & Staff

FR 205 Advanced Oral and Written Expression — Fall and Spring
A course designed to increase and perfect the student's ability to express himself in spoken and written French. Emphasis will be placed on diction, clarity, variety, and the expression of abstractions. Sections limited to 15 students. Mr. Knox and Staff

FR 206 Advanced Oral and Written Expression (Spring) — Mr. Knox and Staff

Literature

FR 209 Introduction to Critical Reading — Fall
Study of the elements and structures of theiterary work, from a generic rather than an historical viewpoint: poetry and drama. The student will develop andemonstrate his ability to criticize literature in class discussions and papers. — Mr. Thiher and Staff

FR 210 Introduction to Critical Reading (Spring) — Mr. Thiher and Staff

(FR 211 Creative Writing) To be offered in 1973-74.

FR 309 The Renaissance — Fall
Readings in Rabelais and Montaigne as well as the various poets who constituted the "Pleiade". — Mr. Simon

FR 310 Moralistes and Philosophes — Fall
Readings in the French moraliste tradition (Descartes, Pascal, La Rochefoucault, La Bruyère, Voltaire, Diderot, Rousseau) with particular attention to the way in which an image of Man emerges from a work via theme, structure, rhythm, style, etc. — Mr. Knox

(FR 312 The French Novel from La Fayette to Laclos) To be offered in 1973-74.

FR 315 Nineteenth Century French Novel (Spring) — Ms. Stern

FR 316 Nineteenth Century Poetry — Fall
Readings of various poets with special attention given to Baudelaire, Rimbaud and the Symbolist movement. — Ms. Rifelj

(FR 317 Modern French Theater) To be offered in 1973-74.

FR 318 Modern French Poetry (Spring) — Ms. Rifelj

FR 319 The Modern Novel Between The Wars — Fall
(Le Roman entre les deux guerres.) Readings in Gide, Malraux, Aragon, Mauriac, etc., with special emphasis on Proust. — Mr. Thiher

FR 320 The Contemporary Novel (Spring) — Mr. Simon

FR 321 Classical French Theater (Spring) — Mr. Knox

(FR 331 Images of Women From Corneille to Laclos) To be offered 1973-74.

(FR 333 The Structures of Autobiography) To be offered in 1973-74.

(FR 334 Medieval French Poetry) To be offered in 1973-74.

FR 335 Short Fiction in the Nineteenth Century — Fall
Stylistic and thematic analysis of short fiction as genre. Selected readings from Nodier, Stendhal, Merimé, Nerval, Flaubert, Maupassant, etc. — Ms. Stern

(FR 350 French Cinema) To be offered in 1973-74.

(FR 411 French Civilization) To be offered in 1973-74.

(FR 412 French Civilization) To be offered in 1973-74.

(FR 413 Aspects of Contemporary France) To be offered in 1973-74.

FR 442 Workshop in French Theater (Spring) Mr. Barenbaum

FR 500 Independent Projects Fall and Spring
Qualified undergraduates may be permitted to undertake a special project in reading and research under the direction of some members of the Department. Staff

FR 700 Senior Research Fall and Spring
Staff

GEOGRAPHY AND GEOLOGY

Geography

The essence of geographic study is the analysis of phenomena in a spatial context, especially the "where" and "why" of human activities. In their attempt to explain the differences which exist from place to place over the earth's surface, geographers collect, analyze, and integrate data from both the physical and social sciences. They examine such physical elements as landforms, climate, soils, and vegetation and interpret them in terms of the distribution of people, their ways of making a living, and the social and political patterns they have developed. Because man's perception of the environment and his interactions with it are constantly changing, geography seeks to understand how present world patterns have evolved from the past and how they might be modified in the future.

Required for a Major: GG 101, GG 102, GG 201, GG 202, GG 302, GG 401, one regional course numbered from GG 311 through GG 317, and Senior Research (GG 700). In the Spring Term of their Junior year, majors will be required to select a topic for a senior thesis in consultation with a departmental adviser. The Fall and Winter Terms of the Senior Program are devoted to the writing of the thesis and the Spring Term is devoted to its oral presentation, defense, and final editing for submission no later than May 1. The Department also participates in the interdisciplinary Environmental Studies major through the Human Ecology option.

Cognate courses for a Major in Geography range over a broad field and should be selected from other departments according to one's interest in Geography, and with the approval of the adviser. Students contemplating graduate studies and/or professional careers in city and regional planning may also avail themselves of Independent Projects in Spatial Analysis and Human Ecology (GG 500) designed to meet their special needs.

GG 101 Introduction to Spatial Analysis I: The Developed World Fall
A survey of the physical and cultural factors which influence the distribution of man and his activities on the surface of the earth. The first term is devoted to developing skills in geographic analysis with special reference to the developed regions of the world, i.e. Europe, the Soviet Union, and Anglo-America. (GG 101 is a prerequisite for GG 102 and all other courses in the department.) Mr. Malmström

GG 102 Introduction to Spatial Analysis II: The Underdeveloped World (Spring) Mr. Illick

GG 201 The Environment of Man: The Physical Setting — Fall
A systematic examination of the elements of the physical environment. Landforms, climates, soils, vegetation, minerals and water resources will be studied by means of field trips, maps, and photo-interpretation. 3 hrs. lect., 3 hrs. lab. (GG 101) — Mr. Illick

GG 202 Spatial Analysis of Economic Activity (Spring) — Mr. Malmström

GG 211 The Environment of Man: The Urban Setting — Fall
An analysis of the spatial distribution of urban settlements, their relationships with each other and with their rural hinterlands, and their internal differentiation. A study will be made of the growth and decline of urban settlements and of areas within urban settlements. The nature and problems of urban places in different parts of the world will be examined. (GG 101)
Mr. Hovinen

GG 302 Techniques of Spatial Analysis: Remote Sensing and Cartography (Spring) Mr. Illick

Seminars in Spatial Analysis: Contemporary economic, social, and political problems of major world regions will be systematically examined in a spatial and environmental context. Limited to 20 students. (GG 101)

GG 311 Anglo-America (Spring)	Mr. Hovinen
GG 312 Latin America (Spring)	Mr. Malmström
(GG 313 Europe) To be offered in 1973-74.	Mr. Malmström
GG 314 Africa South of the Sahara	Fall Mr. Hovinen
(GG 315 Soviet Union) To be offered in 1974-75.	Mr. Malmström
(GG 316 Middle East and North Africa) To be offered in 1973-74.	Mr. Illick
GG 317 South and East Asia	Fall Mr. Illick

GG 401 Spatial Analysis of Political Activity — Fall
The study of the state as a geographic phenomenon, with emphasis on the spatial, cultural, and economic factors that influence its emergence, growth, and relationships with other states. The present world situation will be analyzed in terms of geopolitical principles. (GG 101)
Mr. Malmström

GG 412 Applied Spatial Analysis: Principles of Planning (Spring) — Mr. Hovinen

GG 500 Readings and Research in Spatial Analysis and Human Ecology — Fall and Spring
A course arranged to fulfill the research needs of students majoring in Geography.

GG 700 Senior Research — Fall, Winter, Spring
Staff

Geology

Students, including freshmen, can enter the program in geological sciences through any of the 200-level courses: Global Tectonics, Elements of Oceanography, Geochemistry of Earth Materials, or Environmental Geology. They may then concentrate in these or other areas, depending on where their interests develop. Interdisciplinary concentration is encouraged. Work in the geological sciences culminates in a senior thesis that consists of an original contribution based on student field and/or laboratory work.

Required for the major: No courses are required of any student entering the program. Concentration in any of several areas such as geophysics, oceanography, geochemistry, or environmental geology will include at least 12 courses, but no more than 20. In addition students are expected to take one year each of college mathematics, physics, and chemistry or their equivalents. Advanced courses in these and selected other fields may be counted toward the required minimum 12 courses. All Area Concentrations will include the equivalent of 3 courses for the senior thesis.

GG 252 Environmental Geology (Spring) Mr. Baldwin

GG 261 Elements of Oceanography Fall
Oceanographic exploration introduced through study of ocean basins and continental margins. The multidisciplinary nature of oceanography is emphasized by using principles of marine geology, geophysics, geochemistry, and biology to resolve contemporary problems. Techniques of data collection are taught on Lake Champlain in the college's research craft. 3 hrs. lect., 4 hrs. lab. Mr. Folger

GG 271 Geochemistry of Earth Materials Fall
Introduction to processes that have formed the Earth and Moon. Stress is on the formation of minerals and origin of different rock assemblages. Laboratory: field mapping; study of rocks in hand specimen and thin section; interpretation of distribution and evolution of rocks from analysis of geologic maps. 3 hrs. lect., 4 hrs. lab. Mr. Baldwin

GG 272 Global Tectonics (Spring) Mr. Coney

GG 361 Sedimentary Processes and Paleontology Fall
The environment of deposition of sedimentary rocks is inferred from study of their textures, mineralogy, and primary structures, which are a response to physical and chemical processes. Particular stress is on sedimentation at continental margins. Laboratory: field study of shelf and deep-water sedimentary assemblages; thin-section and hand-specimen study of other assemblages; introduction to study of invertebrate fossils. 3 hrs. lect., 4 hrs. lab. (Permission.) Mr. Baldwin

GG 362 Principles of Stratigraphic Analysis (Spring) Mr. Folger

GG 381 Tectonics Fall
The behavior of earth materials in a dynamic earth. Geometric, kinematic, and dynamic analysis of deformational structure. Regional tectonic setting of earth structures. Laboratory: detailed mapping and interpretation of complex structures in Vermont geology; quantitative analysis and interpretation of deformation as shown on maps and aerial photographs. 3 hrs. lect., 4 hrs. lab. (Permission.) Mr. Coney

GG 392 Analytical Petrology (Spring)

GG 452 Quaternary Stratigraphy and Surfical Processes (Spring) Mr. Folger

(GG 462 Evolution of Ocean Basins) To be offered in 1973-74.

GG 482 Advanced Tectonics and Geophysics (Spring) Mr. Coney

GG 491 Advanced Geochemistry and Metamorphic Petrology — Fall
An integrated approach to the "granite problem" and associated ultrametamorphism. Experimental appraisal of metamorphic reactions and migration of elements during metamorphism; comparative study of classical areas. Laboratory: investigations of metamorphic rocks of the Green Mountains; mineral determination in X-ray diffraction and trace element analysis in X-ray spectrometry. 3 hrs. lect., 4 hrs. lab. (Open to juniors and seniors by permission.)

GG 550 Readings and Research — Fall and Spring
Individual or group independent study, laboratory or field research projects, readings and discussion on timely topics in earth and environmental science. — Staff

GG 750 Senior Research — Staff

GERMAN

Departmental students are normally expected to take the eight courses which presently constitute the Major in German Literature. Since all higher courses will be conducted in German, completion of German 202 or its equivalent is prerequisite to acceptance into the Department. In their junior and senior years qualified students may undertake approved independent research. It is the department's expectation that all majors will have had at least one semester in a German-speaking country by the time they graduate. Junior majors will normally spend the second semester at the Johannes Gutenberg-Universität in Mainz. There is no comprehensive examination in the senior year.

GN 101 Elementary German — Fall
The course consists of three lectures, three drills and laboratory. Lectures. The lectures pre-drill the student, which is to say, the student is guided through the exercises that he is to prepare for the following day's drill. Drills. Drilling is done in groups of approximately ten students. Since they have been through the exercises in lecture, students are expected to display absolute and automatic control of drill assignments. — Mr. Sparks, Mr. Vail & Staff

GN 102 Elementary German (Spring) — Mr. Sparks, Mr. Vail & Staff

GN 201 Intermediate German — Fall
The course meets three hours a week in sections of approximately ten students. It begins with a comprehensive grammar review; this is followed by a phase in which literary texts are used as the basis of further language instruction and for the acceleration of reading speed. In the final phase of the course, progress in the language is supplemented by textual interpretation. — Staff

GN 202 Advanced German (Spring) — Staff

(GN 301 Modern German Literature) To be offered in 1973-74.

GN 305 The German Novelle — Fall
Novellas by modern German authors. — Mr. Sparks, Miss Driver

(GN 306 The German Novelle) To be offered in 1973-74.

GN 307 The German Novelle (Spring) — Miss Driver

(GN 310 German Lyric Poetry) To be offered in 1973-74.

(GN 401 The Eighteenth Century) To be offered in 1973-74.

(GN 402 The Age of Goethe and Schiller) To be offered in 1973-74.

GN 406 Romanticism Fall
This course will provide the student with techniques for examining a period in depth. The emphasis will be on narrative forms. The course will give the student a basis from which to understand romantic themes and forms as they are carried forward into the twentieth century. Readings will include works by E.T.A. Hoffmann, Eichendorff, Tieck, Wackenroder, Novalis, Brentano and von Arnim. Mr. Vail

GN 407 Romanticism (Spring) Mr. Vail

(GN 414, GN 415 Seminar: The German Novel) To be offered in 1973-74.

GN 500 Independent Study

HISTORY

The History major combines an introduction to several areas of historical knowledge with intensive training and practical work in historical research. Majors must take at least one semester lecture course in early history, choosing from the following: HI 103, 205, 207, 313, 325, 326, 327, 328, and must also take at least two semester courses outside of their main field of concentration. (The fields are defined as Europe, America, and Non-Western.) The same course may be counted towards a fulfilment of both these requirements. Each major must also take a Research Seminar (HI 401-420), and a Readings course (HI 421-430) by the end of his junior year. Senior majors, having chosen a topic the previous spring, take Independent Study, as described below under HI 700, and may, if they wish, enroll for the senior seminar in the spring. With departmental permission, certain cognate courses (normally not exceeding two) may be counted for credit towards a major in History.

Required for all History majors: At least eight courses below the 700 level, including a Research Seminar and Readings Course, and a senior project.

HI 103 Crises in European History Fall
The course will examine three critical periods of early modern European history in which the established order found itself under attack: the German Reformation, the English civil war, and the French Enlightenment. (Primarily for freshmen and sophomores; juniors and seniors admitted by permission only.) Mr. Tillinghast and Staff

HI 104 Modern Revolutions (Spring) Miss Lamberti and Staff

HI 203 United States History, 1607-1970 Fall
A one-term survey of the American experience from Old World origins to the present day. The coverage will be thematic and topical, with emphasis upon selected political, social, and intellectual developments. Mr. Catton

HI 205 History of Africa (Early) Fall
A survey of the major themes in African History from prehistorical times to the beginning of the modern colonial period. Emphasis will be on the early development and evolution of

social, economic and political systems before the impact of modern colonial innovation and pressures. Mr. Holmes

HI 206 History of Africa (Recent) (Spring) Mr. Holmes

HI 207 Early History of East Asia Fall
The history of China and Japan before the great crisis that coincided with the Western incursions of the 19th century. Stress on the thought and institutions of traditional society in the two countries, and on the way their societies adapted themselves to changing historical circumstances. Mr. Clifford

HI 208 East Asia since 1800 (Spring) Mr. Clifford

(HI 301 Economic History of the United States) To be offered in 1973-74.

HI 303 The United States in the 19th Century (1801-1861) Fall
An analysis of American political and social history from the election of Jefferson to the outbreak of the Civil War. Emphasis will be upon Jeffersonian and Jacksonian democracy, the institution of slavery in a changing economic environment, the abolition movement, and the causes of sectional controversy and civil war. Mr. Catton

HI 304 The United States in the 19th Century (1861-1901) (Spring) Mr. Catton

HI 305 Twentieth-Century America Fall
A study of the political and social forces in America, concentrating on the Progressive Era, the First World War, the 1920's, the Great Depression, and the New Deal. Mr. Jacobs

(HI 306 Twentieth-Century America) To be offered in 1973-74.

HI 307 Black History Fall
An examination of the Black experience in America. Emphasis will be on Black-White relations, including White attitudes towards Blacks. Mr. Stameshkin

HI 309 History of American Education (Spring) Mr. Stameshkin

HI 313 History of Russia to 1725 Fall
A study of Russian history from the ninth century through the reign of Peter the Great, with emphasis upon the evolution of cultural and political trends from Kiev, through Muscovy, and into imperial times. Mr. Pereira

HI 314 History of Russia to 1953 (Spring) Mr. Pereira

HI 315 History of Modern Europe, 1815-90 Fall
An analysis of political institutions, social and economic changes, religious and intellectual developments, and international relations. Students are encouraged to concentrate in a special area or country. Lectures are interpretive. Reading assignments include the finest interpretive studies on European history. Miss Lamberti

HI 316 History of Modern Europe, 1890-1950 (Spring) Miss Lamberti

(HI 324 Philosophy of History) To be offered in 1973-74.

HI 325 The Civilization of the Dark Ages — Fall

Western Europe from the fifth to the eleventh centuries. This was a barbaric world, shot through with memories of former grandeur, but with little to hope for from the future. In view of this outlook, its achievements were astonishing. Mr. Tillinghast

HI 326 The Middle Ages (Spring) — Mr. Tillinghast

(HI 327 The Renaissance) To be offered in 1973-74.

(HI 328 The Age of Reformation) To be offered in 1973-74.

HI 401-20 Research Seminars — Fall and Spring

The purpose of the research seminar is to introduce the student to methods of research and historical writing. The first few weeks are spent in reading in the area of the course in class, and in an introduction to bibliographical problems. During the rest of the course the students write a long paper on a subject of their choosing. The research seminar is required of majors in their junior year, and is open to others by permission. The department may permit a student to write an equivalent research paper in a field not covered by the pro-seminars; in this case he should register for HI 500.

Offered in fall 1972:

410 Twentieth Century America

412 Modern Chinese History

Offered in spring 1973:

409 American Colonial and Revolutionary History

414 The Writing of Marxist History

HI 421-30 Readings Courses — Fall and Spring

Extensive directed readings in the field of the student's choice, designed to give him a thorough grounding in the secondary literature and major interpretive problems of a particular area of history. (Required of majors in sophomore or junior years; open to others by permission. Fuller descriptions will be available in the History office prior to registration.)

Offered in fall 1972:

HI 421 Readings in Modern European History

HI 422 Readings in African History

HI 423 Readings in Ameiican Urban History

Offered in spring term 1973:

HI 424 Readings in East Asian History

HI 425 Readings in the American Civil War

HI 426 Readings in American History in the 1890's

HI 500 — Fall and Spring

Special research projects (Permission only.) — Staff

HI 700 Independent Study — Fall and Winter

Seniors will choose, with departmental advice and approval, from among the following types of Independent Study projects: (1) a two-term thesis, departmental or interdepartmental, the work to be done normally in the fall and winter terms; (2) an interdepartmental essay, jointly approved and directed by an adviser in both departments; (3) an historiographical essay; (4) a bibliographical essay; (5) an oral history project; (6) a translation project; (7) a conventional historical research paper; (8) practice teaching in history, in conjunction with the Teacher Education program, in local secondary schools, with a written report to be turned in to the History Department at the

end of the semester; and (9) HI 705, below. Eligibility for honors will normally be confined to students completing the two-term thesis, although outstanding performance in any of the other undertakings may result in permission to continue and complete it during a second term and become eligible for honors.

HI 705 Teaching Assistantship — Fall and Spring
Teaching assistance in discussion sections of certain lecture courses. Permission of the course instructor is required.

HI 710 Topics in Comparative History — Spring
Senior seminar. Readings and discussions in problems chosen by staff and students, encouraging a comparative study of problems common to different periods and different fields.
Staff

MATHEMATICS

The Major includes work in analysis through advanced calculus, a year of modern algebra, plus work in several elective fields. Probability and statistics, topology and geometry, real and complex analysis, number theory and advanced algebra and an introduction to digital computers are available to all majors. Each major will make a careful choice of electives with the help of his adviser in order best to fulfill his particular mathematical needs.

Advanced placement is offered freshmen whose secondary training indicates they can successfully take the sophomore course.

Seniors must register for MA 704 in the Spring Term.

Required for the Major: MA 112, MA 113, MA 201, MA 202, MA 301, MA 302, MA 401, MA 402, three electives in the Department and MA 704. Physics is recommended and, under special circumstances, certain courses in other departments may serve in lieu of one or two of the required departmental electives.

MA 101 Introduction to Finite Mathematics — Fall
Selected topics from areas of finite mathematics; designed for students who have had only three years of secondary school mathematics. Elements of mathematical logic and of the theory of sets; partitions, binomial coefficients; introduction to probability theory, conditional probability; matrices, solution of linear equations.
Mr. Olinick

MA 109 Introduction to Modern Mathematics (Spring) — Staff

MA 112 Mathematical Analysis-I — Fall and Spring
Introductory analytic geometry and calculus; designed for students with four years of secondary school mathematics. The differential calculus of algebraic functions and applications; the indefinite and definite integral, area under a curve.
Staff

MA 113 Mathematical Analysis-II — Fall and Spring
A continuation of MA 112; may be elected by freshmen who have had an introduction to analytic geometry and calculus in secondary school. Applications of integration to volumes of revolution, length of arc, surface of revolution, pressure, and work; the calculus of the elementary transcendental functions; hyperbolic functions; polar coordinates; determinants. (MA 112 or permission.)
Staff

MA 201 Mathematical Analysis-III — Fall and Spring
The calculus of functions of more than one variable. Introductory vector analysis, analytic geometry of three dimensions, partial differentiation, multiple integration and applications. (MA 113 or permission.) — Staff

MA 202 Mathematical Analysis-IV (Spring) — Staff

MA 301 Linear Algebra — Fall
Topics from modern linear algebra including the algebra of matrices, determinants, rank and equivalence of matrices, linear dependence, systems of linear equations, vector spaces and linear transformations, characteristic values and vectors, orthogonal systems, canonical forms, dual spaces. (MA 113) — Mr. Carruth

MA 302 Abstract Algebra I (Spring) — Mr. Peterson

MA 303 Abstract Algebra II — Fall
Fields and field extensions. Galois theory. Finite fields. Valuation theory and an introduction to algebraic number theory. Chain conditions and Noetherian rings. (MA 302). Offered in alternate years. — Mr. Carruth

MA 310 Probability — Fall
An introduction to the concepts of probability, mostly in finite sample spaces. Discrete probability distributions; independent events, conditional probability, Bayes' Theorem; expectation, variance, covariance and correlation; joint probability distributions; Chebyshev's Theorem; Bernoulli trials; applications. (MA 113.) Offered in alternate years. — Mr. Olinick

(MA 311 Statistics) To be offered in 1973-74.

(MA 321 Elementary Number Theory) To be offered in 1973-74.

MA 331 Introduction to Digital Computers — Fall
An introduction to digital computers and computer languages. The organization of electronic digital computers; programming in FORTRAN and assembler languages; applications in numerical analysis. (MA 113 and permission. Limited to 20 students.) — Mr. Ballou

MA 401 Advanced Calculus — Fall
Further topics in the calculus and real analysis. Fundamental concepts of real function theory, divergence and curl, line integrals, Green's theorem, the Stieltjes integral, infinite series, power series, Fourier series, improper integrals. (MA 202) — Mr. Bielli

MA 402 Advanced Calculus (Spring) — Mr. Bielli

(MA 411 Elementary Topology) To be offered in 1973-74.

(MA 421 Modern Geometry) To be offered in 1973-74.

MA 431 Complex Analysis (Spring) — Mr. Bielli

(MA 432 Real Analysis) To be offered in 1973-74.

MA 500 Advanced Study — Fall and Spring

Individual study for qualified students in more advanced topics in algebra, number theory, real or complex analysis, topology. Particularly adapted for those who enter with advanced standing. (Permission.) Staff

MA 704 Problem Seminar (Spring) Staff

MUSIC

The offerings of the Music Department focus on three areas of the discipline: 1) The vocabulary and theory of music, 2) its historical development. 3) its creative aspects--performance and composition.

The relative emphasis on any of these three will vary for the individual music major according to his talents, interest and needs. Independent study consists of advanced work in one or more of these areas as determined by the department in consultation with the student.

It is generally assumed that the major will take MU 101 (Music as Design), MU 102 (Music as Idea and History), MU 206, MU 207 (Performance), MU 209, MU 210 (Theory), MU 309, MU 310 (Analysis), and three other departmental offerings.

Any of these requirements may be waived or changed if the department feels the best interests of the student are served.

MU 101 Music as Design (Spring) Mr. Todd

MU 206 Performance Fall
The focus of this study is the development of musical understanding and expression through active participation in making music. As a laboratory course, the primary work takes place in tutored private practice and ensemble rehearsal; choir, orchestra, chamber groups and individual instruments. (Permission.) Mr. Fanning and Staff

MU 207 Performance (Spring) Mr. Fanning & Staff

MU 209 Theory Fall
As an introduction to the study of constructing and analysing music, MU 209 approaches the basics of notation, sight reading, keyboard skills and ear training. Emphasis on exercises in interval studies, rhythm, simple melody and harmony dictation, clef reading skills and other materials necessary for theoretical work. Mr. Fanning

MU 210 Theory (Spring) Mr. Fanning

MU 260 Words and Music Fall
A survey of the variety of techniques composers have used in setting words to music. Examples will be studied ranging from the twelfth century to the present. A modest reading knowledge of musical notation is required. Mr. Kurtzman

MU 301 Electronic Music (Spring) Mr. Todd

MU 309 Analysis Fall
Continuation o MU 209 and MU 210 with emphasis on analysis of individual works from different historical periods. Required of music majors. Mr. Kurtzman

MU 310 Analysis (Spring) Mr. Kurtzman

MU 401 Historical Research Seminar Fall

The Historical Research Seminar is designed to acquaint advanced students with the methods and materials of historical research in music. The course will concentrate upon a specific period and locale, examining published music and recordings, documentary sources, bibliographies, secondary studies and other available materials. Topic for 1972-73: Seventeenth century Italian music. (Permission.) Mr. Kurtzman

MU 402 Historical Research Seminar (Spring) Mr. Kurtzman

Applied Music

The aim of the Department is to present music for its value as literature and as a record of one aspect of human achievement, not as professional training. We strongly encourage students to improve performing techniques as a necessary means of cultivating the art. The College will assist the student as far as possible in securing adequate instruction when not provided by the regular staff.

Students who wish private instruction in piano, organ, violin, viola, or classical guitar should enroll with the Department during registration.

Fees are to be paid to the Cashier's office at the beginning of each term. No rebate is allowed for lessons missed except in the case of continued illness. Applied Music instruction consists of 1 lesson weekly; fee $105 per semester for all instruments except recorder which is taught in consort. Fee for recorder is $65 per semester.

Private Instruction in Piano	Mrs. Kurtzman
Private Instruction in Voice	Mrs. Quint
Private Instruction in Organ	Mr. Fanning
Private Instruction in Violin and Viola	Mr. Glick
Private Instruction in Classical Guitar	Mr. Rhinelander
Private Instruction in Recorder	Mr. Skrobela

Music Library. The Christian A. Johnson music library contains several thousand records, scores, books, and a collection of chamber music. Listening facilities in the library are available to anyone from the college community.

Practice Facilities. Practice rooms with pianos are available for individual and group rehearsal. Organs: Walcker (1969) mechanical action, 15 ranks; and Gress-Miles (1970) 48 ranks. Application should be made to the secretary of the music department.

College Orchestra. Weekly rehearsals leading to the performance of music from all periods. Performance by small ensembles is encouraged. All instrumentalists are urged to audition. Apply to secretary of music department. Mr. Fanning

College Choir

The College Choir sings at Chapel Services and special concerts on and off campus. In keeping with the educational intent of the choral program, repertoire for all performing groups is as historically inclusive and demanding as possible. Performance in languages other than English is stressed. Audition required, open to all students without prerequisite. Mr. Fanning

The major work to be performed by the orchestra and choir in the fall term will be Schubert's Mass in Ab.

Recitals
Regularly scheduled recitals and lectures are open to the public.

PHILOSOPHY

Non-majors: Most of the Philosophy Department courses are open to students who are not majors and who have had little or no previous work in philosophy. PA 102 is the general introduction to the field and is open to students in all classes. Courses in the 200 range are introductions to specialized areas of philosophical study which do not require particular competences though students who have done work in education, religion, or the arts will find their studies in those areas of assistance. Except as noted, 300 level courses are generally open to students but they suppose a higher level of sophistication than the 200 level courses and are not normally open to freshmen. 400 level courses are normally open only to majors. Non-majors with a previous background in philosophy may elect a 400 course but they should consult with the instructor.

Major program: Majors will elect ten courses in the department which may include PA 102. Cognate courses particularly in the areas of political science and religion may be substituted for two courses with prior permission. Majors must elect: one course in Ethics and Social Philosophy (PA 300-320); one course in Philosophy of Science and Theory of Knowledge (PA 350-370); one course in Studies in the History of Philosophy (PA 400-420) and the Senior Seminar (2 course units) in Contemporary Philosophy.

Honors candidates will do a 500 project in the Winter Term of Senior Year and may substitute under exceptional circumstances a second term of 500's work for the second term of the Senior Seminar. Students must have a B average in all work in the department during their junior year and first term of senior year to be permitted to undertake an Honors project. 500 projects are open only to philosophy majors and they must have attained an average of B in all course work within the department.

PA 102 Philosophical Problems Fall
This course will provide an introduction to philosophy through a detailed consideration of a number of important philosophical problems. Examples of such problems are: the possibility of knowledge, the nature of truth, problems of perception, the problem of induction, the mind-body problem, and the question of free-will versus determinism. There will be readings from classical and contemporary sources. Staff

PA 115 The Philosophical Tradition: Greek and Medieval Fall
Main themes of philosophic thought from the beginnings in Greece through the period of Christian Scholasticism. General readings in the history of philosophy will serve as background to in-depth study of major figures such as Plato, Aristotle, Augustine or Aquinas. Two lectures and one discussion. Mr. Bigelow

PA 116 The Philosophical Tradition: From the Scientific Revolution (Spring) Mr. Bigelow

PA 210 Philosophy of Education Fall
An examination of the theory and practice of higher education as seen both in the systematic development of educational philosophies and in actual historical examples of educational philosophies applied to certain institutional structures. (This course will also receive credit for Teacher Education.) Mr. O'Brien

PA 217 Philosophy of Art (Spring) Mr. O'Brien

PA 218 Introduction to Modern Logic (Spring) Mr. Temin

PA 222 Hegel and the Nineteenth Century Fall
An examination of Hegel's philosophy of the absolute and of the reinterpretation in the light of Hegel, of human nature and society, of religion and of philosophy itself during the nineteenth century. Mr. Nuovo

Ethics and Social Philosophy

Courses numbered in the range PA 300 - 320 fall in the general area of ethics, social philosophy and theory of value. Offerings may change from time to time and courses will be alternated as indicated.

PA 305 Human Nature and Ethics Fall
An investigation of some of the most important theories in Western intellectual history concerned with appropriate ways for men to lead "the good life". Proceeding in historical sequence, the course will cover Plato, Aristotle, Hobbes, Hume, Kant and Camus. An attempt will be made to relate the moral theories considered to the general intellectual assumptions of the ages in which they were produced and to the stated or unstated conceptions of human nature contained in the theories. Mr. Bates

(PA 307 Ethics and Analysis) To be offered in 1973-74.

PA 309 Philosophy of Law (Spring) Mr. Bates

Philosophy of Science and Theory of Knowledge

Courses numbered in the range PA 350 - 370 fall in the general area of theory of knowledge or epistemology. Problems of knowledge, proof and perception have been particularly central to philosophical concerns in the modern period. Students considering graduate work in philosophy should elect courses in this area. Offerings may change from time to time and courses will be alternated as indicated.

PA 351 Theory of Knowledge (Spring) Mr. Bigelow

(PA 352 Philosophy of Mind) To be offered in 1973-74.

PA 353 Philosophy of Science Fall
Principles of scientific method and the nature of scientific explanation, the concept of a scientific law, causality, induction and probability, and the nature of mathematical truth. Mr. Temin

PA 354 Philosophy of Language (Spring) Mr. Temin

Studies in the History of Philosophy

Courses numbered in the range PA 400 - 420 will cover major figures in philosophy or major movements, e.g., empiricism, rationalism, idealism, existentialism. These courses are re-

commended to students planning to pursue graduate work in philosophy and should normally be elected only by students who have had previous courses in philosophy.

PA 406 Kant — Fall
An investigation of Kant's critical philosophy consisting of a detailed examination of the Critique of Pure Reason, and the Foundations of the Metaphysics of Morals. — Mr. Bates

PA 500 Research in Philosophy (open only to majors) — Fall and Spring
Staff

PA 704 Senior Seminar: Contemporary Philosophy — Fall and Spring
All seniors elect two terms of the senior seminar. The seminar is devoted to the study of contemporary figures or movements in philosophy. Students will be expected to prepare periodic research papers utilizing primary sources and journal literature. — Staff

PHYSICAL EDUCATION & ATHLETICS

The Physical Education Program concentrates on the so-called life-time sports so that all students leave Middlebury with exposure to sports or recreational activities in which they have developed a degree of skill and interest that will be an asset to them in later years. The program consists of five seasons in essentially life-time sports, i.e., dual, individual, dance, and swimming (required for those unable to pass the pool test) and a credit maximum of three seasons for participation in intercollegiates, performing groups, or instructional team sports. There are two seasons in each of the two college terms and one season in the college winter term.

Students may complete their Physical Education Program by utilizing any of the following options and opportunities:

a. Instructional classes
b. Approved independent programs
c. Exemption program
d. Any combination of the above, including a three season credit for participation in intercollegiates, performing groups, or instructional team sports.

The Physical Education Program may be completed at any time, or by any of the above options, convenient to the student during his/her four years at Middlebury - except that three exemptions or three seasons credit should be attained by the end of the Junior year to ensure completion of the program. The entire program may be completed by demonstrating proficiency at or above the intermediate level in three life-time activities offered in the exemption program, provided the "Pool Test" has been passed. The passing of one or two exemptions provides the student with one or two seasons credit toward completion of the entire program. Students may take no more than three instructional classes in the same activity nor receive more than three seasons credit for the same activity (one of which may be an exemption credit). A yearly medical examination is required of all students participating in departmental programs.

All registrations for instructional classes in physical education are held in the McCullough Gymnasium Office, and registrations are held prior to the start of each of the five seasons during the college year. There are three exemption periods during the year (early fall, middle winter, and late spring) and students sign up for test appointments at the McCullough Office prior

to the announced exemption periods. Students should consult the appropriate department member concerning participation in intercollegiates and performing groups. Application forms for independent programs are available at the Offices in the Field House and McCullough and are returnable, for consideration, to Prof. Colman's Office in the Field House one week prior to the start of each physical education registration period. Students who wish to elect courses (i.e., the student does not need the course for physical education credit) should register with the department for the appropriate season and they will be scheduled for classes on a space available basis.

Physical Education Program (Fall and Winter I Seasons) Staff
Specific seasonal course offerings are available at the time of registration prior to the start of each season.

Physical Education Registration Periods: (9:00-12:00 and 1:00-4:00 at McCullough Office)
For Fall Season - September 11, 12 and 13.
For Winter I Season - October 16, 17 and 18.

Approved Independent Programs: Applications are available at the offices in McCullough and the Field House and are returnable, for consideration, to Prof. Colman's office in the Field House one week prior to the start of each Physical Education registration period.

Fall Exemption Period: (Students must sign-up for test appointments by 4:00 p.m. on September 11 at the McCullough Office.) The following tests will be given on September 11, 12 and 13: Tennis, swimming, golf, archery, modern dance, riding, and the pool test.

PE 271 Dance: A Performing Art (Spring) Miss Gulick

PE 281 Dance: Interpretation in Historical Perspective Fall
A course designed for the student's appreciation and enjoyment of dance through the discipline of dance technique, study of its history, and through numerous choreographic explorations. Students will avail themselves of the resource material in the college library and the music library in Johnson to choreograph dances of various historic periods for contemporary understanding. A presentation of danced efforts and findings will be given. Technique: Three hours a week; Composition Exploration: Two hours a week; Lecture-Discussion Seminar: One hour a week. Limited to 15 students. Miss Gulick

PHYSICS

The course offerings in the Department of Physics are designed to fill the needs of a liberal arts curriculum. The offerings are suitable for three categories of students: (1) Those who do not intend to specialize in science, but have an interest in science; (2) Those who desire a basic introduction to physics as an adjunct to a major in another science; and (3) Those who major in physics. Students normally major in physics as preparation for graduate study in the sciences or engineering, as preparation for a professional school, or as preparation for teaching. Students planning to major in physics should start with PH 109-110, no later than their sophomore year and preferably in their freshman year. Students with excellent secondary school training may be permitted to begin their study of physics with PH 201, PH 202 Modern Physics.

For students not specializing in science the department offers three one-term courses, PH 101 The Physical World - Energy and Stability, PH 102 The Physical World - Geometry and Motion, and PH 251 Introduction to Astronomy. These courses have no prerequisites and are not sequential.

Students intending to major in physics (category (3) above) will find that the department offers a full complement of both theoretical and experimental courses. The minimum requirements for a major in physics are the four term sequence of Mathematical Analysis, the four term sequence of General Physics and Modern Physics, four electives in physics, and either two terms of Independent Study followed by general examination (two credits total), or two terms of Advanced Laboratory followed by general examination (two credits total). Specific courses to be taken by a major are determined by him in consultation with his department adviser. The department offers a program for majors of Environmental Studies with Emphasis in Physics. (See Environmental Studies.)

PH 101 The Physical World - Energy and Stability Fall
The various forms of energy provide the basis for a contemporary description of the physical world. Emphasis is on phenomena which occur in nature and on processes which convert energy from one form to another. Examples are drawn from many fields with the aim of relating the size and time scales of nature to fundamental physical laws. Major attention is given to nuclear energy and radioactivity. The treatment is based on intuitive concepts - strengthened by laboratory experience - with only elementary use of mathematics. Three hours lecture and one three-hour laboratory. Mr. Wright

PH 102 The Physical World - Geometry and Motion (Spring) Mr. Wright

PH 109 General Physics I Fall
An introduction course to mechanics, waves and oscillatory motion, acoustics, and heat. A sound background in algebra and geometry is supposed. The ideas of calculus are introduced but no manipulative skill in calculus is required of the student until the latter part of the course. Use of the computer is taught and the computer is used extensively as an aid in analyzing experimental results obtained in the laboratory and in solving problems. (MA 112 is a corequisite.) Three hours lecture, three hours laboratory. Staff

PH 110 General Physics II (Spring) Staff

PH 201 Modern Physics I Fall
This course extends the general physics sequence into the realm of Modern Physics. Topics presented include special relativity, statistical distribution, kinetic theory and quantization principles. (PH 109,110 or permission.) Three hours lecture, three hours laboratory/problem session. Mr. Winkler

PH 202 Modern Physics II (Spring) Mr. Winkler

PH 221 Electronics Fall
An introduction to modern electronic circuits and devices, with emphasis on their physical operation and practical use. Topics include dc and ac circuits, vacuum tubes, semiconductor devices, rectifiers and detectors, vacuum tube and transistor amplifiers, distortion and noise, feedback, control and computer circuits, oscillators, and electronic instrumentation. (PH 110 or permission.) Three hours lecture, two laboratory sessions. Mr. Terwilliger

PH 251 Introduction to Astronomy (Spring) Mr. Winkler

PH 301 Electromagnetic Fields Fall
A study of the properties of electric and magnetic fields in empty space and in matter, leading to the unified and concise description of all electromagnetic phenomena by Maxwell's equations.

Topics include electrostatics, magnetostatics, dielectric and magnetic materials, scalar and vector potentials, and electromagnetic induction. Applications to problems of current interest in physics and other sciences. (PH 110 and MA 201.) Three hours lecture and one laboratory/problem session. Mr. Terwilliger

PH 302 Electromagnetic Waves (Spring) Mr. Terwilliger

PH 303 Intermediate Mechanics Fall
The mechanics of single particles is extended through the use of generalized coordinates to provide equations of motion for complex mechanical systems. The resultant formalism stresses energy rather than force and allows considerable freedom in the choice of variables used to describe the motion. The method is illustrated by theories for planetary orbits, gyroscopes, coupled oscillators, deformable solids, and fluids. Three hours lecture. (Prerequisite PH 109, corequisite MA 201.) Mr. Wright

PH 312 Methods of Theoretical Physics (Spring) Mr. Wright

PH 332 Heat and Thermodynamics (Spring) Staff

PH 401 Quantum Mechanics Fall
Operators, operator equations, Schroedinger's equation, quantized angular momentum and spin: some application to atomic and nuclear systems. (PH 202) Three hours lecture. Mr. Winkler

PH 402 Advanced Modern Physics (Spring) Staff

PH 441 Advanced Laboratory I Fall
This course allows the student to learn and use the more advanced techniques and concepts of physics by performing experiments in areas of current interest to physicists. Relatively few experiments will be performed. For each experiment the student will do library research going to original papers when possible, will take part in the planning of the experiment and after carrying it out will present a report of his work. The two terms of Advanced Laboratory are not sequential. (PH 202) Two three hour laboratory/problem sessions. Staff

PH 442 Advanced Laboratory II (Spring) Mr. Terwilliger

PH 500 Research and Special Topics Fall and Spring
(Permission) Staff

PH 705 Independent Study and General Examination Fall and Winter
Independent study in the fall and winter terms followed by comprehensive examinations in April (2 credits total). Staff

POLITICAL SCIENCE

The major in Political Science examines the theory and practice of politics. The major program begins with a term study of politics in general, followed by a term of American or comparative politics. Intermediate level courses are offered in the major fields of the discipline. The senior program is directed toward intensive study in research seminars. Offering a selected core curriculum with a broad range of approaches to the study of politics, including

philosophic, traditional, and scientific analysis, the curriculum is designed to meet the demands of modern citizenship as well as the basic preparation for graduate work or law school. Normally only courses at the 100 level are open to Freshmen.

Required for the major in Political Science: A total of ten Political Science courses, including: (1) PS 101 and either 102 or 103, (2) completion of the Senior Program, and (3) two courses in each of three of the following fields: American Political Institutions, International Politics and Foreign Policy, Comparative Politics, and Political Philosophy and Behavior. Majors also should consult with their advisers regarding appropriate cognate courses.

Senior Program: The Senior Program normally consists of two Research Seminars, each of which includes an advanced research project. The Research Seminars are listed as the 400 level courses below. They may be taken at any time beginning with the Spring Term of the Junior year, but they must be taken during separate terms. Two course credits are granted for the Senior Program. Students admitted to the Honors Program may substitute one term of Honors work for one of the Research Seminars. Department approval also may be granted to Seniors with exceptional records who wish to substitute an Independent Project (PS 500) for one of the Research Seminars. Proposals should be submitted to the Department for approval at least one month prior to the registration period for the Senior term in which the project would be undertaken.

Honors Program: Students may become candidates for Honors in Political Science at any time after the beginning of the Spring term of the Junior year and prior to the Spring term of the Senior year. Honors projects will normally be begun in the Senior Research Seminars or 500 projects. Prior to the beginning of the Winter term of the Senior year, the Department will determine whether Senior Seminar or 500 projects are progressing satisfactorily enough to be continued as Honors projects. One course credit (PS 500) is granted for Honors work.

PS 101 Introduction to Political Science Fall
A study of the classics in political science: Plato, Republic; Aristotle, Politics; Machiavelli, The Prince; Hobbes, Leviathan; Locke, Second Treatise on Government; Rousseau, Second Discourse; Marx, Communist Manifesto el al.; Weber, "Politics as a Vocation," "Science as a Vocation"; Nietzsche, The Use and Abuse of History. Two lectures and one discussion section per week. (Freshmen and Sophomores or permission.) Mr. Dry and Staff

PS 102 The American Political Regime (Spring) Mr. Dry and Staff

PS 103 Introduction to Comparative Politics (Spring) Mr. Rosenberg

American Political Institutions

PS 203 American Politics and Legislation Fall
The American political process; the theory and practice of politics; the functions and activities of political parties and interest groups and their role in the initiation and control of governmental policies, including a consideration of crucial political issues and practical politics.
Mr. Thurber

PS 204 American Politics and Legislation (Spring) Mr. Thurber

PS 301 State and Local Government (Spring) Mr. Thurber

PS 303 Public Administration Fall

A study of some fundamental aspects of administrative phenomena, including the common elements and the differentia of public and private administration; the necessity or dispensability of administrative frameworks, in particular the bureaucratic type; the relations between law, politics, and administration; arguments for administrative responsibility and accountability, as well as for autonomy and discretion; the meaning of administrative justice. Some attention will also be given to arguments about the possibility of a science of administration. Mr. Nelson

PS 305 American Constitutional Law: Principles and Structure Fall

Study of the judicial function and the constitutional principles of federalism and the separation of powers as the Supreme Court has enunciated them in leading cases. Reading concentrates on leading Supreme Court decisions, interpretive essays and commentaries. Students participate in a Mock Court case or write a paper on a topic suggested by the course reading.

Mr. Dry

(PS 306 American Constitutional Law: Individual Rights) To be offered in 1973-74.

PS 307 The American Presidency Fall

Powers, purpose, and functioning of the Presidency in the American political system.

Mr. Thurber

International Relations and Foreign Policy

PS 201 International Politics Fall

Introduction to the study of international politics. Approaches to the analysis of foreign policy-making, international systems and the causes of international conflict. Mr. Leng

PS 202 Contemporary International Politics (Spring) Mr. Leng

(PS 302 International Conflict Resolution) To be offered in 1973-74.

PS 304 Theories of International Politics (Spring) Mr. Leng

PS 311 American Foreign Policy: Institutions and Processes Fall

Critical examination of contemporary administrative problems in foreign policy formulation and implementation, involving such issues as constitutional authority versus political expediency, competition between the President and Congress, adequacy of Executive organization: State and Defense Departments, Foreign Service, Intelligence; the role of public opinion; and, review of the decision-making process through pertinent case studies. Individual oral and written reports. Mr. Hoag

PS 313 Analysis of Political Perceptions: Case Studies of Soviet-American Relations Fall

Examination of key periods of confrontation between the two States in which images evolved which have colored relationships to the present day. Evaluation of the actual and perceived interests of both States and their effect on current relations. Basic periods to be studied include: Allied Intervention during the Russian Revolution, 1918-1919; United States Recognition of the Soviet Union in 1933; Significant Aspects of World War II Diplomacy; Selected Post-War Events. Mr. Hoag

PS 405 Seminar on International War Fall
Research seminar on the analysis of the causes and consequences of international war. The course focuses on wars in the modern nation-state system and contemporary approaches to analysis. (Seniors or permission.) Mr. Leng

Comparative Politics

PS 321 Government and Politics of Eastern Asia Fall
Study of China, Japan and India. Background of contemporary political institutions and processes. Emphasis on current domestic and foreign problems confronting these states, including the facts and fantasies relating to constitutions, political parties, incipient revolts against the status quo, tests of survival. Class discussion supplemented by oral and written reports based on current literature. Mr. Hoag

PS 322 Government and Politics of Southeast Asia (Spring) Mr. Rosenberg

PS 330 Politics and Technology Fall
How can organizational and technological demands for control and coordination be balanced with individual and social needs for identity and community? A study of the limits of industrial growth, including the works of Galbraith, McLuhan, Reich, Commoner, and Skinner.
Mr. Rosenberg

PS 404 Seminar on European Politics Fall
The social origins of dictatorship and democracy. Analysis of the political cultures of Britain, France, Germany, and the Soviet Union. (Seniors or permission.) Mr. Rosenberg

Political Theory

PS 317 Political Philosophy: The Classical Tradition Fall
Detailed study of the political thought of Plato and Aristotle plus selected medieval writers. Stress on the themes of natural right, the claims of political association and of private life, action and theory, and the impact of revelation on political thought. Mr. Nelson

PS 318 Political Philosophy: The Modern Tradition (Spring) Mr. Nelson

PS 331 Methods of Inquiry in Political Science (Spring) Mr. Rosenberg

PS 401 Seminar on Representative Government (Spring) Mr. Dry

PS 409 Seminar on Political Thought: Some Twentieth Century Political Thought (Spring)
Mr. Nelson

Independent Projects

PS 500 Advanced Projects in Research
A program of independent research designed to meet the individual needs of advanced students. (Permission.) Staff

PSYCHOLOGY

For the student who majors in psychology engagement with experimental data lays the basis for an empirically-founded and objective formulation of principles of human behavior. He may encounter the data in published research reports, in his regular laboratory work, and in connection with his own research along lines that he finds important. The relevant observations may involve human subjects or sometimes infra-human subjects for the better experimental control that they may permit. Whatever the sources of his observations, the student comes to see them as products of the experiments that generated them, and thus he evaluates their importance for hypothesis or generalization.

As a psychology major the student takes a program of elective and required courses in psychology and related disciplines. By the end of his sophomore year, through work in Psychology, and in cognate fields, he has acquired familiarity with many of the data, concepts, and research procedures essential to an understanding of human behavior. During his last two years he makes use of his accumulated knowledge and skills in his deep involvement with several areas of central importance to psychology.

Students generally choose to complete as much as possible of their formal course work toward the major by the end of the junior year so that their work in psychology as seniors can be devoted to independent reading and study and possibly to individual research leading to Departmental Honors.

Required for a Major in Psychology: PY 105, (or PY 102), PY 201, PY 205, PY 301, PY 305 and at least three additional fall or spring term courses in psychology; participation during one winter term in a scheduled winter program in psychology; Qualification in Psychology; Senior Seminar (PY 704) and the General Exam nation in Psychology (PY 705); and completion of cognate requirements: two one term courses, chosen in light of the student's interest and with the consent of the Psychology Department, from among the courses offered in Biology, Chemistry, Mathematics, and/or Physics.

Qualification in Psychology must ordinarily be accomplished by the end of the student's sophomore year and is achieved by completion of Psychology PY 105 (or PY 102) with a grade of at least 70, by completion of Psychology PY 201 with a grade of at least 70, and by completion of the extra-departmental cognate requirements stated above. A student who has not met Qualification by the end of his sophomore year may be granted exception to the requirements on action of the Department in response to his written request.

Senior Program: Senior Seminar (PY 704) involves conferences with staff and preparation of several papers and presentation of these papers to a seminar during the fall and spring terms of the student's senior year. Preparation for the General Examination (PY 705), given yearly in May, will involve independent reading by the student. This preparation may be done as the equivalent of one course during the fall or winter or spring term of the student's senior year at his choice.

If the student seeks to be graduated with Departmental Honors in Psychology he must apply to the Department before February 1 of his junior year. He will then register for Advanced Research (PY 500) during the spring term of his junior year to delimit his problem and conduct any necessary pilot or feasibility studies for his research. Upon successful conclusion of such studies he will, if he chooses, be admitted to Honors candidacy, and continue his research during his senior year as part of his work in PY 704. He may also, if he chooses, devote the Winter Term of his senior year to research. Upon successful completion of his project an Honors Examining Board will be convened to consider and make recommendation about the order of

Departmental Honors to be awarded upon his graduation. These orders include Honors, High Honors, and Highest Honors in Psychology.

PY 105 Psychology: A Viewpoint Fall and Spring
Several important issues selected from the problems of perception, motivation, and mental illness are considered from the point of view that, for a psychologist, a satisfactory understanding of the phenomena he studies will necessarily depend on his seeing them in terms of his subject's (1) physical capabilities and limitations, (2) experiential environment, and (3) interactions with that environment. 3 hrs. lecture, 2 hrs. practicum. Staff

PY 201 Principles of Research in Behavioral Science (Spring) Mr. Ewell

PY 205 Experimental Psychology: Learning Fall
This course will consider past and current research in the broad area of conditioning and learning as it relates to an understanding of human behavior. The topics studied include: the principles of Pavlovian and operant conditioning, discrimination training, the transfer of training, retention and forgetting, and the role of structure in verbal learning. The laboratory work in the course includes operant conditioning techniques and selected problems in verbal learning. (PY 105) 3 hrs. lect., lab. Mr. Prouty

PY 225 Developmental Psychology (Spring) Mr. Prouty

(PY 228 Personality: Normal and Abnormal) To be offered in 1973-74.

(PY 229 Social Psychology) To be offered in 1973-74.

PY 301 Physiological Psychology Fall
The central focus of this course is on the neurophysiological, neuroanatomical and endocrinological substrates of both human and animal behavior. In the laboratory the student will learn several of the surgical and anatomical techniques used to investigate central nervous system function. (PY 101 or PY 105 or permission.) (Permission will be liberally granted to students with backgrounds in biology, chemistry or physics.) 3 hrs. lecture, lab. Mr. Pellegrino

PY 305 Experimental Psychology: Psychophysics and Scaling Fall
The lectures in this course deal with problems and theory. Some of the significant issues considered include the nature of the sensory threshold from the point of view of classical psychophysics and of signal detection theory, the problem of the time error, and the procedures that have been suggested for scaling sensation, intelligence, and attitudes. The laboratory work serves to make specific the material covered in lectures. (PY 201 or permission.) Mr. Ewell

(PY 314 Experimental Psychology: Sensory Processes) To be offered in 1973-74.

PY 316 Research in Physiological Psychology (Spring) Mr. Pellegrino

PY 322 Psychology in Clinical and Educational Contexts (Spring) Mr. Ewell

PY 426 Personality and Psychotherapy Fall
This course begins with a systematic study of the various theories of personality with emphasis on those that have specifically arisen from the thinking of active psychotherapists. Then the implications of these theories for the psychotherapeutic process are considered. (PY 322) Mr. Ewell

PY 500 Advanced Research — Fall and Spring
A program of research arranged to meet the needs of advanced students majoring in psychology. (Permission.) — Staff

PY 704 Senior Seminar — Fall and Spring
In this program, required of senior psychology majors during Fall and Spring terms, the student with faculty guidance chooses one or a small number of topics in the literature of psychology to pursue deeply on his own. He reports to his fellow students several times on this work. Participation in this program carries one course equivalent in each of the two terms.
Staff

PY 705 General Examination in Psychology
Senior psychology majors are expected to work independently throughout the year in preparation for the General Examination given in May. This examination covers the field of psychology rather than specific course material. Each student is granted one course equivalent for preparation for this examination. He may take that equivalent, at his own choice, during the fall, winter, or spring term of the senior year. — Staff

RELIGION

The program of the Department of Religion is designed to introduce the student to various aspects of the religious experience of mankind. The courses numbered RE 200 are open to all students, including Freshmen.

A major in religion shall fulfill the following requirements: three courses numbered in the 200's, four courses numbered 300, a seminar in the spring term of the senior year, and two to four cognate courses approved by the department.

RE 101 Seminars in Religion — Fall and Spring
A course organized around six week seminars which deal in depth with a particular issue or topic. The student will select two seminars at the beginning of the term from a list prepared by the department. The topics for 1972-73 will include: "Myth and Ritual," "The Problem of Evil," "Zen Buddhism." (Limited to Freshmen only.) — Staff

RE 201 The Biblical Heritage — Fall
An introduction to biblical history and literature. This course will be offered each semester.
Mr. Scott

RE 203 Classical Issues in Religious Thought — Fall and Spring
Classical religious and philosophical perspectives on such topics as the idea of God, the problem of evil, human freedom and destiny. This course will be offered each semester.
Mr. Rockefeller

RE 205 The Shaping of American Religious Life — Fall
A study of the historical sources of the western religious traditions and their expression in the social and intellectual context of American history. — Mr. Ferm

(RE 206 The Religious Traditions of India) To be offered in 1973-74.

RE 207 Major Themes in the Religions of East and West Fall and Spring
A comparative study of the basic affirmations of selected religious traditions: Buddhism, Taoism, Hinduism, Islam, the religion of Ancient Israel, Zoroastrianism, and Ancient Near Eastern religion. Mr. Rainey

(RE 208 History of Buddhism) To be offered in 1973-74.

Studies in Religion

The following courses, limited in enrollment, may change in number and topic from year to year. They may be elected, with the perm ssion of the instructor, by students who have not had previous courses in religion.

RE 301 The Religious Thought of the Nineteenth Century Fall
An examination of major theological issues in works by Schleiermacher, Hegel, Feuerbach, Kierkegaard, Schweitzer, and others. (Permission.) Mr. Rockefeller

RE 302 The Religious Thought of the Twentieth Century (Spring) Mr. Rockefeller

RE 303 The Thought of Paul Tillich Fall
An examination, through reading and discussion, of Tillich's theological system with particular attention given to his theory of culture and society. (Permission.) Mr. Nuovo

RE 304 The Idea of God in the History of Religions (Spring) Mr. Nuovo

(RE 306 Puritanism and Revivalism in America) To be offered in 1973-74.

(RE 308 Seminar in American Religious History) To be offered in 1973-74.

RE 310 Seminar in Biblical Studies Fall
A critical study of the Gospel narratives. Mr. Scott

RE 311 Depth Psychology and Religion Fall
An analysis and critique of the theories of William James, Sigmund Freud, C. G. Jung, and Erich Neumann concerning the origin and function of religious experience. (Permission.) Mr. Rainey

RE 312 Images of Redemption and Fulfillment: Sacred and Profane (Spring) Mr. Rainey

RE 500 Independent Study

RE 700 Senior Research

RE 702 Senior Seminar (Spring)

RUSSIAN

The following courses taught in English by the Department of Russian are open, with the permission of the chairman of the department, to students who are majors in other departments: RU 251 and RU 252, Russian Literature and Culture; RU 351, Dostoevsky; RU 352, Tolstoy; RU 353, The Russian Short Story; and RU 354, Soviet Russian Literature.

Admission to the major program is attained through satisfactory grades in RU 202 and RU 252 or through satisfactory scores on a qualifying examination. The qualifying examination wil cover all language skills and a general knowledge of Russian literature and culture from its beginnings to the present day.

Normally a major program will consist of the following courses: RU 301, RU 302 and three courses chosen from the following: RU 311, RU 312, RU 401, RU 402, RU 411, RU 412. Although all students will be expected to take work in the areas of language, literature, and civilization and culture, the program of an individual student may place greater emphasis on any of these three areas and each student's program will be planned individually in consultation with the chairman.

The senior program will consist of a Senior Seminar (the equivalent of one course), for which students will normally register in the spring semester. Students with particularly strong records for the first three years of study will be encouraged to prepare an Honors project under the supervision of a faculty member. Upon the approval of the chairman Honors work may be substituted for the Senior Seminar.

Middlebury College is one of the institutions sponsoring a semester-long program of Russian study at Leningrad University through the Council on International Educational Exchange. Competition for this program is extremely rigorous and students should begin planning their entire undergraduate study program early if they anticipate applying for this program. Interested students should consult with the chairman as early as possible concerning this program.

RU 101 Beginner's Russian — Fall
Oral inductive approach to provide a firm control of the sound system and the structure of the language. Although the emphasis is on the spoken colloquial language, reading, writing, and the fundamentals of grammar are gradually introduced in order to provide a solid foundation for work in advanced courses or for reading in specialized fields. Five class meetings per week (two in lecture sections, three in drill sections) and intensive use of the language laboratory.
Mr. Baker and Staff

RU 102 Beginner's Russian (Spring) — Mr. Baker and Staff

RU 201 Intermediate Russian — Fall
Continuation of the oral approach used in RU 101 and RU 102 with increasing emphasis on reading and writing. Four class meetings per week (one in lecture, three in drill sections). Intensive use of the language laboratory. (RU 102 or equivalent.) Mr. Baker and Staff

RU 202 Intermediate Russian (Spring) — Mr. Baker and Staff

RU 251 Russian Literature and Culture — Fall
A survey of Russian cultural history and literature from its beginning to 1880. The main emphasis will be on the 19th century. No knowledge of Russian is required.
Mr. Motolanez

RU 252 Russian Literature and Culture (Spring) — Mrs. Orth

RU 301 Russian Phonetics, Diction and Conversation — Fall
Systematic review of the fundamentals of Russian Grammar. Intensive work in establishing correct Russian pronunciation and intonation. Development of oral fluency and freedom of self-expression. Intensive use of the language laboratory. (RU 202 or equivalent.) Mr. Baker

RU 302 Russian Conversation and Composition (Spring) Mr. Baker

RU 311 Russian Prose and Drama of the 19th Century Fall
Reading in the original of works of some of the major 19th century writers. Classroom discussion in Russian. (RU 202 or equivalent.) Mrs. Baker

RU 312 Russian Prose and Drama of the 19th Century (Spring) Mrs. Baker

RU 351 Dostoevsky (in English) (Spring) Mr. Motolanez

RU 352 Tolstoy (in English) Fall
A study of the major works of one of the giants of Russian and world literature. No knowledge of Russian is required. (Permission of chairman.) Mrs. Orth

(RU 353 The Russian Short Story (in English)) To be offered in 1973-74.

(RU 354 Soviet Russian Literature (in English)) To be offered in 1973-74.

RU 401 Advanced Language Study Fall
Continued development of spoken and written skills, including stylistic analysis of various types of material. Entails use of the language laboratory. (RU 302 or equivalent.) Mrs. Baker

RU 402 Advanced Language Study (Spring) Mrs. Baker

RU 411 Russian Prose and Drama of the 20th Century (Spring) Mrs. Orth

RU 412 Russian Poetry Fall
Study in the original of Russian poetry from the 18th century to the present day. Classroom discussions and written assignments in Russian. (RU 302 or permission.) Mr. Motolanez

RU 500 Advanced Studies in Language and Literature Fall and Spring
Supervised individual study for highly qualified students; including Honors Thesis.

RU 704 Senior Seminar (Spring)

SOCIOLOGY-ANTHROPOLOGY

The major in Sociology-Anthropology will provide the student with a significant perspective for the systematic analysis and understanding of human behavior resulting from cultural and societal forces. Based on the empirical findings of the closely related disciplines of Sociology and Anthropology, this perspective is inherently comparative, such that the department is concerned with the inter-relations between culture and society in various settings. Although both of these disciplines share common concern about human behavior, each in addition has its own history, concepts, and theoretical commitments. Anthropology essentially focuses on the role of culture in human experience and Sociology is concerned primarily with the role of social interaction and the social structure in human experience.

To achieve the requisite understanding of human behavior in the sociocultural context, the major in Sociology-Anthropology is exposed to the theoretical and empirical literature through a coordinated series of 5 required and 5 to 9 elective courses. During the beginning course (SA 101 and SA 102), the student is introduced to the basic concepts, theories, and find-

ings of both Sociology and Anthropology. At this point, each major must declare a "specialization" in either Anthropology or Sociology. (This does not preclude the election of courses in both fields.) Depending on the specialization chosen, one must fulfill the following requirement: if specializing in Anthropology, one "culture area" course from among those which will be offered (SA 321, SA 326, SA 333); if specializing in Sociology, SA 205, Sociological Theory.

All majors, regardless of specialization, must take SA 301, Research Methods. It is strongly suggested that students take this course in the junior year in order to prepare the topic and background for their Senior (or Honors) Thesis. Sophomores may register for the course if they wish.

During the final year, the student will write a Senior Thesis (or Honors Thesis).

Thus, a total of 5 courses will be required, leaving a minimum of 5 and a maximum of 9 fall and spring electives. For his elective courses, a student is free to pursue the study of those problem areas or special interests which best suit his future career plans. The courses in the department are so arranged that a student might choose from a number of possible alternatives. (See the printed chart available from the department.) A student might choose to take most of his electives within either a sociological or anthropological framework. However, he might also choose, for example, to focus his attention on "social process and social problems" thus cutting across and combining courses taught by both anthropologists and sociologists under that general heading. Other such combinations are also possible.

Required for the major in Sociology-Anthropology: SA 101, SA 102, SA 301, either SA 205 or one "area course," the Senior thesis, plus a minimum of 5 but not more than 9 fall and spring courses in the Department and a minimum of one but not more than two winter courses in the Department (one of which may be part of the Senior Thesis.) The selection of cognate courses will be planned with the major's adviser, taking into consideration the student's aims and purposes in the department.

Departmental Honors will be granted to those who do superior work on the senior thesis and course work in the department.

Introductory Courses

SA 101 Introduction to Anthropology Fall
An introduction to the major sub-fields of anthropology--physical anthropology, archaeology, linguistics and social anthropology. An examination of evolution and contemporary variation in man and culture, using data from human paleontology and biology, the archaeological record and ethnographic studies. (Not open to juniors or seniors.) Mr. Andrews and Mr. McCreery

SA 102 Introduction to Sociology (Spring) Mr. Haerle, Mr. Fengler, Mr. Nye

Theory and Method

SA 205 Sociological Theory Fall
A critical analysis of the major sociological theorists who have or are influencing contemporary sociology, through the use of original sources. Emphasis will be given to Marx, Weber, and Durkheim, along with some more contemporary writers. Implications of their ideas to contemporary theory and research. (SA 101 and SA 102 or permission.) Mr. Haerle

SA 301 Research Methods (Spring) Mr. Haerle and Staff

Social Organization and Comparative Institutions

SA 315 Sociology of Education Fall
An examination of education as both a social institution and social process. Topics include the relationship between socialization and education, learning as a social-psychological process, the relationship between education and other institutions and the analysis of the roles of administrators, teachers, students and "outsiders" on various levels. Education in American society is the primary focus with social policy planning proposals the course objective. Mr. Nye

SA 337 Political Sociology (Spring) Mr. Fengler

SA 364 Population Studies Fall
Analysis of factors affecting population growth and distribution in both developed and underdeveloped countries. Particular attention will be given to the close relationship between population trends and such social issues as birth control, sexual discrimination, poverty, urban congestion and environmental pollution. (SA 102 or permission.) Mr. Fengler

SA 370 Social Stratification Fall
The study of the universal phenomenon of structured social inequality. Topics include natural vs. social inequality: the origins and evolution of stratification systems; the distinctions between caste, class and status groupings; the circulation of elites; and stratification as both an objective and subjective phenomenon. Emphasis is on American society of the past, present and future. Authors considered include Marx, Weber, Pareto, Mills, Parsons and Dahrendorf. (SA 102 or permission.) Mr. Nye

SA 407 Anthropology of Religion Fall
A survey of anthropological theories regarding religion and methods for the study of religious experience, myth, and ritual symbo ism. Mr. McCreery

(SA 410 Political Anthropology) To be offered in 1973-74.

(SA 412 The Family) To be offered in 1973-74.

SA 413 Kinship and Social Organization (Spring) Mr. McCreery

Area Studies

SA 321 Native Peoples of North America Fall
An examination of the aboriginal cultures of North America from the Eskimo in the Arctic to the Aztecs of Mexico and the Maya of Guatemala. The major emphasis is on the conditions of various groups at the time of contact, with special concern for the theoretical and conceptual implications of the data. Some attention will be given to the prehistory and contemporary situation of various groups. Mr. Andrews

SA 326 Latin American Culture and Society (Spring) Mr. Andrews

SA 333 Asian Ethnology (Spring) Mr. McCreery

SA 343 American Community Studies Fall
An examination of selected communities and subcommunities within the framework of the folk-urban continuum. The structure of social class, status and power, and the relationship among

institutions within the community. Assessment of methodological issues. (SA 101, SA 102 or permission; SA 359 recommended.) Does not satisfy anthropology area course requirement. Mr. Haerle

Social Process and Social Problems

SA 345 Work, Leisure, and Sport (Spring) Mr. Haerle

SA 352 Individual and Society Fall
Perspectives on the relation between culture, social structure, and the individual: the individual in society and society in the individual. Contemporary sociological conceptions of socialization, self or identity, and interaction. Special attention given to the quality of social life as experienced by the individual person; his involvement with the roles, other persons, and symbols of different institutions. (SA 101, SA 102 or permission.) Mr. Fengler

SA 356 Socio-Cultural Change (Spring) Mr. Andrews

(SA 359 Peasant Society and Culture) To be offered in 1973-74.

SA 366 Majority-Minority Relations (Spring) Mr. Nye

(SA 421 Deviancy) To be offered in 1973-74.

SA 495 Seminar in Sociology-Anthropology Fall or Spring
Offered periodically to allow study of a specific area or subject in Sociology or Anthropology. Topic varies from year to year. (Limited to juniors and seniors.) Staff

SA 500 Advanced Individual Study Fall and Spring
Open to qualified students, by permission Staff

SA 700 Senior Thesis Fall and Winter
Under the guidance of a faculty member, each senior major will carry out an independent research project, often based on original data. Data must be analyzed and presented in a written report. Due at the end of the Winter Term. Staff

SPANISH AND ITALIAN

Spanish

The program of study in Spanish represents a carefully coordinated sequence of instruction in language and literature. The early courses concentrate on developing fundamental language skills, after which students are introduced to the special demands of literary analysis and interpretation. In the more advanced courses, major writers and literary genres are presented in an order of gradually increasing linguistic difficulty.

Required for the major: SI 301, SI 302, plus six higher courses. Also it is recommended that at least two additional courses be selected, in consultation with this department, from related areas such as English, American, and European literatures, Art, and History. Study in a Spanish speaking country is highly encouraged for majors in good standing. Middlebury College offers a special Junior level program of Spanish studies in Madrid. For information on this and

other Junior Level or summer study programs abroad, see Junior Year Abroad Program. Majors must enroll in the Seminar given in the Spring Term of their senior year. Qualified students may undertake approved independent study in their junior and senior years, and any student may select to live for one year in the Spanish corridor.

SI 101 Beginning Spanish Fall
An introduction to Spanish, concentrating on the development of fundamental language skills; listening comprehension, speaking, reading and writing. Meets five times a week, and students make regular use of the language laboratory to complement their work in class. Followed by SI 102.
Mr. Peel, Mr. Ilgen & Staff

SI 102 Beginning Spanish (Spring) Mr. Peel, Mr. Ilgen & Staff

SI 201 Grammar, Reading and Writing Fall
An intermediate course for freshmen and upperclassmen who wish to improve their control of basic language shills. A comprehensive review of grammar is followed by reading and writing exercises based on selected short works by modern Spanish and Spanish American authors. Followed by SI 220.
Staff

SI 220 Spanish Conversation Fall
An intermediate course for freshmen and upperclassmen designed to perfect the student's fluency in spoken Spanish through a carefully structured program leading gradually into free conversation on topics of broad general interest. The course is based on a variety of materials, including articles from current Spanish and Spanish American magazines, film strips and other media. Regularly followed by SI 240.
Mr. Ilgen, Mr. Véguez

SI 240 Modern Writers of the Spanish World Fall
An advanced language and literature course designed both to further the student's experience of Spanish and Spanish American literature and to perfect his skills in writing. The work of the course will be based on the perceptive reading of a number of outstanding prose works from the writings of such figures as Unamuno, Cela, Borges, Cortázar and Asturias. Frequent short critical essays will complement the reading and provide the student with the means of improving his ability to express himself in written Spanish. Open to qualified freshmen and upperclassmen. Followed by SI 301.
Mr. Ilgen, Mr. Peel

SI 301 Literary Analysis and Interpretation in Spanish Fall
This course serves as an introduction to the techniques of critical analysis of Hispanic literature. It follows SI 240 and is a prerequisite for all higher courses in Spanish. Selected works of modern Spanish and Spanish American authors are studied in depth in order to develop the student's ability to read and criticise perceptively various literary forms and attitudes: poetry, novel, theater and short story. Authors read will be Bécquer, Machado, Baroja, García Lorca, Guillén, Azuela, Fuentes, Aleixandre and Hierro.
Mr. Kelsey

SI 302 The Hispanic Tradition in Literature: From the Middle Ages to the Golden Age (Spring)

(SI 310 The Modern Spanish Novel and Essay) To be offered in 1973-74.

SI 320 The Modern Spanish American Novel and Short Story Fall
A study of the origins and development of the novel and short story in Spanish America. The course focuses on man and his conflict with the overwhelming presence of the world around him; ranging from the peasant in revolutionary Mexico, the landowner in Venezuela, and the gaucho

in Argentina to the alienated resident of the modern cosmopolitan city. Authors to be read include Azuela, Gallegos, Güiraldes, Yañez, Asturias, Quiroga, Borges and others.
Mr. Véguez

(SI 325 The Contemporary Spanish American Novel) To be offered in 1973-74.

(SI 410 "Don Quijote") To be offered in 1973-74.

SI 415 Lope de Vega y la comedia española del siglo XVII (Spring) Mr. Kelsey

SI 420 - SI 440 Seminars: Seminars are offered in a wide range of topics, varying from year to year. They include the following: La literatura de la Espana medieval; Hispanoamerica: epoca colonial; La poesia lirica del Siglo de Oro; La tradicion picaresca en la literatura espanola; Romanticismo, realismo y naturalismo en Espana; El teatro moderno en Espana; La poesia hispanoamericana del siglo XX, Readings in the History of the Spanish Language. The department encourages suggestions from students for other topics, and will attempt to arrange seminars for which there is sufficient interest. Plans must be made no later than the beginning of the preceding fall or spring term.

Offered in 1972-73:

SI 422 The Structure of Modern Spanish (Spring) Mr. Ilgen

SI 435 Hispanic Poetry of the Twentieth Century Fall
A study of the major poets of Spain and Spanish America from the Generation of '98 and Modernismo through the Civil War period to the present: Machado, García Lorca, Guillén, Aleixandre, Hierro, Darío, Vallejo, Gorostiza, Neruda and others. Emphasis will be given to the problems of critical interpretation which result from the relationship between ideas and poetic structures.
Mr. Kelsey

SI 500 Independent Study
The department will consider requests by qualified juniors and seniors to engage in independent work.

Italian

SI 151 Beginners' Italian Fall
Training in pronunciation; vocabulary building; a study of the fundamentals of the grammar and syntax; pattern drills; readings. Laboratory exercises are an integral part of the course. Five class meetings per week (two in lecture sections, three in drill sections). (Italian SI 152 must be passed before credit for SI 151 is given.) Mr. Castiglione

SI 152 Beginners' Italian (Spring) Mr. Castiglione

SI 251 Intermediate Italian Fall
A thorough review of the structure of the language, combined with the reading of selections from contemporary Italian prose. Compositions; oral reports; laboratory assignments.
Mr. Castiglione

SI 252 Advanced Italian (Spring) Mr. Castiglione

SI 351 Introduction to Literature Fall

The aim of this course is to acquaint the student, through classroom discussions and oral reports on representative works, with the principal currents and authors of Italian literature. The first semester will be devoted to the study of the development of Italian literature from the Sicilian school to the Renaissance. Mr. Castiglione

SI 352 Introduction to Literature (Spring) Mr. Castiglione

SI 353 Contemporary Italian Prose Fall

A study of the structure and themes of Italian novels and short stories, with special attention to the political and social implications. Among the authors studied will be Buzzati, Moravia, Silone, Vittorini, Pratolini and Pavese. Mrs. Castiglione

SI 354 Contemporary Italian Prose (Spring) Mrs. Castiglione

SI 550 Advanced Studies in Language and Literature Fall and Spring
Mr. Castiglione

TEACHER EDUCATION PROGRAM

The Teacher Education Program offers students opportunities to study educational issues and to prepare themselves as elementary or secondary school teachers. Teacher Education is not a major. The Teacher Education Program also offers students advice on graduate and summer programs in Education.

Upon graduation, students who have completed one of the programs described below and whom the Teacher Education Committee, composed of students and members of the Faculty, judges capable of fulfilling a public school teacher's responsibilities without further external support or stimulus are automatically certified in the following states:

Alaska	Maryland	Rhode Island
California	Massachusetts	South Dakota
Connecticut	Minnesota	Utah
Delaware	New Hampshire	Vermont
Florida	New Jersey	Virginia
Hawaii	New York	Washington
Idaho	North Carolina	West Virginia
Indiana	Ohio	Wisconsin
Kentucky	Oklahoma	
Maine	Pennsylvania	

Students may also earn certification in states not listed here, and they should consult the Director of Teacher Education for advice.

In judging students for certification, the Teacher Education Committee tries to assess each candidate on his strengths and to accommodate the differences in experience and interest which distinguish students from one another. The Committee expects students normally to have undertaken the following studies:

For elementary certification (K-6):

In addition to the studies listed below, most students will find it helpful -- both to their development as teachers and in their search for teaching positions after graduation -- to undertake formal course work on the methods and materials of teaching reading and mathematics at the

elementary level. At the present time Middlebury does not regularly offer courses in these areas. Students, wishing to take such courses, should consult the Director of Teacher Education about when those courses will be offered at Middlebury and their availability elsewhere.

1) One term of college mathematics, advanced placement in mathematics, a one-term course on the methods and materials of teaching mathematics at the elementary level, or a demonstrated lack of need for such study.
2) One term of college science, advanced placement in science, or a demonstrated lack of need for such study.
3) One term course in the foundations of education (see courses below marked with asterisks).
4) A Winter Internship, working with elementary students in schools, or comparable experience -- to be completed prior to TE 304. (This will not be firmly expected of students who graduate before 1975.)
5) Problems and Methods of Education-Elementary (TE 304) or its equivalent.
6) Practice Teaching-Elementary (TE 404-405).

For secondary certification (7-12):

1) A major or its equivalent in a discipline which coincides with a subject taught widely in public secondary schools. The following majors do not coincide with subjects taught widely in public secondary schools; students who intend to major in these areas and to seek secondary certification should reconsider their choice of major and/or speak with the Director of Teacher Education as early as possible in their college careers.

American Literature	Geography	Psychology
American Studies	Economics	Religion
Anthropology	Greek	Sociology
Art History	Philosophy	

2) A one term course in the foundations of education (see courses below marked with asterisks).
3) A Winter Internship, working with secondary students in schools, or comparable experience -- to be completed prior to TE 314. (This will not be firmly expected of students who graduate before 1975.)
4) Problems and Methods of Education -- Secondary (TE 314) or its equivalent.
5) Practice Teaching -- Secondary (TE 414-415).

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MA 109 Introduction to Modern Mathematics (Spring) — Mathematics Staff
(Appropriate for elementary school teachers.)

*PA 210 Philosophy of Education — Fall
(See description under Philosophy) — Mr. O'Brien

*PY 225 Developmental Psychology (Spring) — Mr. Prouty
(PY 101 or PY 105)

*PY 322 Psychology in Clinical and Educational Contexts (Spring) — Mr. Ewell
(PY 101 or PY 105)

*HI 309 History of American Education (Spring) — Mr. Stameshkin

*SA 315 Sociology of Education — Fall
(See description under Sociology) — Mr. Nye

ID 305 Language Learning: Theory and Practice — Fall and Spring
(See description under Interdepartmental) — Mr. Paquette

TE 304 Problems and Methods of Education--Elementary (Spring)
Preferably taken Junior year. (Permission) — Miss McGlynn

TE 314 Problems and Methods of Education--Secondary — Fall
An introductory study, through readings and discussion, of issues in contemporary schooling. Particular attention will be given to the aims of secondary education, the design of a curriculum, organization of schools and classrooms, the nature of adolescents, and the importance of teaching methods. Each student will observe classes at the secondary level, write analytical papers, and design a teaching unit in the subject he intends to teach. Preferably taken Junior year. (Permission) — Teacher Education Staff

TE 404-405 Practice Teaching -- Elementary (K-6) — Fall and Spring
A double course in which each student teaches daily at a single grade level in a local elementary school and, for a period of three full days, assumes responsibility for the activities of his classroom. Master teachers and college Supervisors of Student Teaching meet regularly with each student teacher to plan and evaluate his teaching. All students meet with the Supervisor of Student Teaching in a weekly seminar to study issues in elementary school teaching in light of their observations and experiences teaching in the local schools. (TE 304 and permission. Admission to TE 404-405 does not guarantee a student placement as a practice teacher, because the number of places available is determined by factors beyond the control of the College: the number of local teachers willing and competent to serve as master teachers and the number of students each term who wish to practice teach.) — Mrs. Gleason and staff

TE 414-415 Practice Teaching -- Secondary (7-12) — Fall and Spring
A double course in which, after observing classes, each student daily teaches two or three courses at local secondary schools and toward the end of the term assumes most of the duties of his master teacher for two or three days. Each student also participates in some of the co-curricular activities of his school and writes plans and evaluations of his teaching. Student teachers work under the close supervision of their master teachers and the Supervisors of Student Teaching. The principal purposes of this course are to help each student teacher develop criteria for evaluating his performance, to test his theories of teaching and learning and his ideas about the curriculum, and under the guidance of experienced teachers to begin to develop his own style of teaching. (TE 314 and permission. Admission to TE 414-415 does not guarantee a student placement as a practice teacher, because the number of places available is determined by factors beyond the control of the College: the number of local teachers willing and competent to serve as master teachers and the number of students each term who wish to teach particular subjects.) — Mrs. Thurber and Staff

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PROGRAM OF MILITARY SCIENCE

The objective of a Senior Division Army Reserve Officers' Training Corps (ROTC) unit, organized under the provisions of the National Defense Act of 1916 and amendments thereto, is to provide a program which will attract, motivate, and prepare selected students with potential to serve as commissioned officers in the Army Reserve or Regular Army. The ROTC curriculum at Middlebury College provides a flexible program of instruction designed to complement the student's civilian goal of acquiring a baccalaureate degree in a course of study of his choos-

ing by enabling him to develop those attitudes and qualities that will facilitate transition to military service. The program includes a two-year basic course offered during the freshman and sophomore years, and a two-year advanced course offered during the junior and senior years. Credit for previous active duty m litary service and ROTC training will be granted in accordance with current Department of the Army regulations. Draft deferments will be provided all members of the program.

The Basic Course

A two-year basic course is available to all male students who voluntarily enroll in the freshman year. During the freshman year the course meets one period each week during the fall and spring semesters. During the sophomore year the course meets two periods each week during the fall and spring semesters. Six hours of leadership laboratory (drill) are also required each semester during both the freshman and sophomore years. Uniforms, books, arms and equipment are furnished by Department of the Army at no cost to the student.

MS 11 (Fall) and MS 12 (Spring) Freshman Basic (Military Science I)
Fall and spring semester. Fundamentals of Military Leadership and Management (one hour each week) and Leadership Laboratory (six hours each semester).

MS 21 (Fall) and MS 22 (Spring) Sophomore Basic (Military Science II)
Fall and spring semester. Applied Military Leadership and Management (two hours each week) and Leadership Laboratory (six hours each semester).

Enrichment Courses. Two semester credits, normally scheduled during the first two years of college, will be devoted to effective communications courses. These are courses offered by academic departments and subject to approval by the Director of Military Science (DMS). In cases where such courses have been waived by the institution, the DMS may accept such waiver as fulfillment of this requirement.

The Advanced Course

A two-year advanced course is offered to juniors who either successfully complete the basic course, served on active duty in the Armed Forces for one year, or successfully complete a six-week basic summer camp prior to their junior year of college. Members of the advanced course are selected by the DMS from students in the sophomore class who volunteer and are in one of these categories.

During the junior and senior year the course meets two periods each week during the fall and spring semester. Six hours of Leadership Laboratory are also required each semester during both the junior and senior years.

Students enrolled in the advanced course will receive a retainer allowance of $100.00 per month. Department of the Army also purchases for each advanced course student a regulation Army Officer uniform. This is worn during leadership laboratory and is retained by the student upon his graduation.

Attendance at one advanced summer camp of six weeks duration is mandatory. During attendance the student is paid $265.35 per month. Mileage rate is paid from home of record in Continental United States to camp and return. Students will attend camp between their junior and senior years, but deferment to the next summer may be made, for a cogent reason, when approved by the DMS.

The ROTC student is given a general military science course which does not emphasize any one branch or service. Prior to commissioning, assignment to a branch will be made based

on existing Army quotas and the individual's desires and capabilities. Training is oriented primarily toward a commission in one of the combat arms--Infantry, Air Defense, Artillery, Armor, Signal Corps, or Engineer Corps. Students whose academic program has particularly qualified them may request a comm ssion in one of the technical service branches--Chemical Corps, Ordnance, Finance, and others.

Students who enroll in the Advanced Course must agree to complete ROTC training, unless circumstances beyond their control make it impossible to do so. Students must agree to accept a commission, if it is offered, and to serve on active duty in the Army for a period of two years.

Commissioning Requirements. Once a student is enrolled in the Advanced Course, he must satisfactorily complete the following to be eligible for a commission as a Second Lieutenant:

a. Education: Receive a baccalaureate degree.

b. Military Training:

(1) Complete all military courses for the Senior Division ROTC.

(2) Complete ROTC Advanced Summer Camp.

(3) Be recommended for appointment by the President of the College and the Director of Military Science.

Upon successful completion of the above requirements, the student is commissioned as a Second Lieutenant, U.S. Army Reserve. Outstanding military students are eligible for a direct commission in the Regular Army upon graduation. Graduates then report to active duty within the first twelve months following their commissioning. Those who desire to attend graduate school may be deferred from active duty for the duration of their graduate study, but not to exceed 24 months. Exceptions to this policy will be granted to students pursuing advanced study in the healing arts, ministry and the legal profession.

MS 31 (Fall) and MS 32 (Spring) First Year Advanced Course (Military Science III) Fall and Spring semester. Advanced Leadership and Management (two hours each week) and Leadership Laboratory (six hours each semester).

MS 41 (Fall) and MS 42 (Spring) Second Year Advanced Course (Military Science IV) Fall and Spring semester. Theory and Dynamics of the Military Team and Military Leadership and Management (two hours each week) and Leadership Laboratory (six hours each semester).

ROTC Flight Program. This program is available to selected cadets in their senior year at no cost to the cadet. The student is given thirty-five hours of ground school and thirty-six hours of flight instruction. Successful completion of this program qualifies the individual for a Federal Aviation Agency Private Pilot's License.

College Calendar, 1972-73

1972
SEPTEMBER
6—Wednesday, Freshman Week begins
11—Monday, Fall Term Classes begin (8 a.m.)

OCTOBER
7—Saturday, Alumni Homecoming Day (College in session)
28—Saturday, Parents' Weekend (College in session)

NOVEMBER
18—Saturday, Thanksgiving Recess begins (12 noon)
27—Monday, Classes resume (8 a.m.)

DECEMBER
9—Saturday, Fall Term Classes end (12 noon)
11—Monday, Final Examinations begin
15—Friday, Final Examinations end, Christmas Recess begins

1973
JANUARY
3—Wednesday, Winter Term begins (8 a.m.)

FEBRUARY
3—Saturday, Winter Term ends (5 p.m.) and Winter Recess begins
12—Monday, Spring Term Classes begin (8 a.m.)
22—Thursday, Winter Carnival Recess begins (5 p.m.)
26—Monday, Classes resume (8 a.m.)

MARCH
31—Saturday, Spring Recess begins (12 noon)

APRIL
9—Monday, Classes resume (8 a.m.)

MAY
16—Wednesday, Classes end (5 p.m.)
17—Thursday, General Examinations begin
19—Saturday, Final Examinations begin
23—Wednesday, Final Examinations end
27—Sunday, Baccalaureate and Commencement

MIDDLEBURY COLLEGE BULLETIN
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